

```

JJJ      000000000    888888888888    CCCCCCCCCCCC    TTTTTTTTTTTTTTTT    LLL
JJJ      00C000000    888888888888    CCCCCCCCCCCC    TTTTTTTTTTTTTTTT    LLL
JJJ      000000000    888888888888    CCCCCCCCCCCC    TTTTTTTTTTTTTTTT    LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888888888888    CCC        TTT        LLL
JJJ      000        000    888888888888    CCC        TTT        LLL
JJJ      000        000    888888888888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJ      000        000    888        888    CCC        TTT        LLL
JJJJJJJJJ    000000000    888888888888    CCCCCCCCCCCC    TTT        LLLLLLLLLLLLLLLLLL
JJJJJJJJJ    000000000    888888888888    CCCCCCCCCCCC    TTT        LLLLLLLLLLLLLLLLLL
JJJJJJJJJ    000000000    888888888888    CCCCCCCCCCCC    TTT        LLLLLLLLLLLLLLLLLL

```

[illegible]


```
1 0001 0 MODULE ACCOUNTNG(%TITLE 'Accounting manager'
2 0002 0 IDENT = 'V04-000'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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11 0011 1 * ALL RIGHTS RESERVED.
12 0012 1 *
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21 0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
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25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY:
33 0033 1 Job controller.
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1 This module contains the accounting management routines.
37 0037 1
38 0038 1 ENVIRONMENT:
39 0039 1 VAX/VMS user and kernel mode.
40 0040 1 --
41 0041 1
42 0042 1 AUTHOR: M. Jack, CREATION DATE: 16-Feb-1982
43 0043 1
44 0044 1 MODIFIED BY:
45 0045 1
46 0046 1 V03-005 MHB0140 Mark Bramhall, 20-Apr-1984
47 0047 1 Change account name handling, especially the determination
48 0048 1 logic for generating SYSINIT and LOGFAIL records.
49 0049 1
50 0050 1 V03-004 MLJ0114 Martin L. Jack, 23-Jun-1983 4:48
51 0051 1 Changes for job controller baselevel.
52 0052 1
53 0053 1 V03-003 MLJ0113 Martin L. Jack, 26-May-1983 21:05
54 0054 1 Changes for job controller baselevel.
55 0055 1
56 0056 1 V03-002 MLJ0112 Martin L. Jack, 29-Apr-1983 2:48
57 0057 1 Changes for job controller baselevel.
```


ACCOUNTING
V04-000

Accounting manager

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[JOBCTL.SRC]ACCOUNTING.B32;1

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: 58
: 59
: 60
: 61
: 62

0058 1 :
0059 1 :
0060 1 :
0061 1 :
0062 1 : **

V03-001 MLJ0109 Martin L. Jack, 14-Apr-1983 12:45
Changes for job controller baselevel.


```
64 0063 1 REQUIRE 'SRC$:JOBCTLDEF';
65 1104 1
66 1105 1
67 1106 1 LITERAL
68 1107 1 ACCT_ACM_REG= 6,
69 1108 1 ACCT_ACR_REG= 7,
70 1109 1 ACCT_APK_REG= 8,
71 1110 1 ACCT_SJH_REG= 9,
72 1111 1 ACCT_SMQ_REG= 11;
73 1112 1
74 1113 1
75 1114 1 LINKAGE
76 1115 1 L_WRITE_ACCOUNTING_FILE= CALL: GLOBAL(
77 1116 1 ACR = ACCT_ACR_REG),
78 1117 1
79 1118 1 L_IDENT_PACKET= CALL: GLOBAL(
80 1119 1 ACM = ACCT_ACM_REG,
81 1120 1 ACR = ACCT_ACR_REG,
82 1121 1 SJH = ACCT_SJH_REG,
83 1122 1 SMQ = ACCT_SMQ_REG),
84 1123 1
85 1124 1 L_RESOURCE_PACKET= CALL: GLOBAL(
86 1125 1 ACM = ACCT_ACM_REG,
87 1126 1 ACR = ACCT_ACR_REG);
88 1127 1
89 1128 1
90 1129 1 FORWARD ROUTINE
91 1130 1 WRITE_ACCOUNTING_FILE: L_WRITE_ACCOUNTING_FILE NOVALUE,
92 1131 1 OPEN_ACCOUNTING_FILE: NOVALUE,
93 1132 1 CLOSE_ACCOUNTING_FILE: NOVALUE,
94 1133 1 IDENT_PACKET: L_IDENT_PACKET NOVALUE,
95 1134 1 RESOURCE_PACKET: L_RESOURCE_PACKET NOVALUE,
96 1135 1 WRITE_USER_ACCOUNTING_RECORD: NOVALUE,
97 1136 1 WRITE_FILE_LINK_RECORD: NOVALUE,
98 1137 1 WRITE_ACCOUNTING_RECORD: NOVALUE,
99 1138 1 WRITE_PRINT_RECORD: NOVALUE,
100 1139 1 WRITE_PROCESS_RECORD: NOVALUE,
101 1140 1 PROCESS_ACCOUNTING: NOVALUE;
102 1141 1
103 1142 1
104 1143 1 EXTERNAL ROUTINE
105 1144 1 FIND_PROCESS_DATA: L_OUTPUT_3,
106 1145 1 LOCK_QUEUE_FILE: NOVALUE,
107 1146 1 READ_RECORD,
108 1147 1 SIGNAL_FILE_ERROR: NOVALUE,
109 1148 1 UNLOCK_QUEUE_FILE: NOVALUE;
110 1149 1
111 1150 1
112 1151 1 EXTERNAL
113 1152 1 EXESGL_ACMFLAGS: BBLOCK ADDRESSING_MODE(GENERAL);
114 1153 1
115 1154 1
116 1155 1 BUILTIN
117 1156 1 LOCC,
118 1157 1 MOVCC,
119 1158 1 SKPC,
120 1159 1 TESTBITCC,
```


ACCOUNTNG
V04-000

Accounting manager

; 121

1160 1

TESTBITSC;

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```
123 1161 1 ROUTINE WRITE_ACCOUNTING_FILE: L_WRITE_ACCOUNTING_FILE NOVALUE=
124 1162 1
125 1163 1 !++
126 1164 1
127 1165 1 FUNCTIONAL DESCRIPTION:
128 1166 1 This routine writes the accounting file.
129 1167 1
130 1168 1 INPUT PARAMETERS:
131 1169 1 NONE
132 1170 1
133 1171 1 IMPLICIT INPUTS:
134 1172 1 ACR - Pointer to accounting record.
135 1173 1
136 1174 1 OUTPUT PARAMETERS:
137 1175 1 NONE
138 1176 1
139 1177 1 IMPLICIT OUTPUTS:
140 1178 1 NONE
141 1179 1
142 1180 1 ROUTINE VALUE:
143 1181 1 NONE
144 1182 1
145 1183 1 SIDE EFFECTS:
146 1184 1 Accounting record written.
147 1185 1
148 1186 1 --
149 1187 1
150 1188 2 BEGIN
151 1189 2 EXTERNAL REGISTER
152 1190 2 ACR = ACCT_ACR_REG: REF BBLOCK; ! Pointer to accounting record
153 1191 2
154 1192 2
155 1193 2 ! The following loop is executed up to MAXFILERR times or until the accounting
156 1194 2 ! record is successfully written, provided that an accounting file is open and
157 1195 2 ! the record type is selected by the accounting control flags.
158 1196 2
159 1197 2 DECR I FROM JBC$K_MAXFILERR TO 1 DO
160 1198 3 BEGIN
161 1199 3 LOCAL
162 1200 3 FAB: REF BBLOCK; ! Pointer to FAB
163 1201 3
164 1202 3
165 1203 3 ! Pick up a pointer to the current accounting FAB. If the file is closed,
166 1204 3 ! return.
167 1205 3
168 1206 3 FAB = .ACCOUNTING FABS[0];
169 1207 3 IF .FAB[FAB$W_IFI] NEQ 0
170 1208 3 THEN
171 1209 4 BEGIN
172 1210 4
173 1211 4 ! Evaluate the accounting control flags to determine whether the
174 1212 4 ! record type is currently selected.
175 1213 4
176 1214 4 IF
177 1215 5 BEGIN
178 1216 5 CASE .ACR[ACR$V_TYPE] FROM ACR$K_PRCDEL TO ACR$K_FILE_BL OF
179 1217 5 SET
```



```
180 1218 5
181 1219 5
182 1220 5
183 1221 5
184 1222 5
185 1223 5
186 1224 5
187 1225 5
188 1226 5
189 1227 5
190 1228 5
191 1229 5
192 1230 5
193 1231 5
194 1232 5
195 1233 5
196 1234 5
197 1235 5
198 1236 5
199 1237 5
200 1238 5
201 1239 5
202 1240 5
203 1241 5
204 1242 5
205 1243 5
206 1244 5
207 1245 5
208 1246 5
209 1247 5
210 1248 5
211 1249 5
212 1250 5
213 1251 5
214 1252 5
215 1253 5
216 1254 5
217 1255 5
218 1256 5
219 1257 5
220 1258 5
221 1259 5
222 1260 5
223 1261 5
224 1262 5
225 1263 5
226 1264 5
227 1265 5
228 1266 5
229 1267 5
230 1268 5
231 1269 5
232 1270 5
233 1271 4
234 1272 5
235 1273 5
236 1274 5

[OUTRANGE]:
FALSE;

[ACR$K_PRCDEL, ACR$K_PRCPUR]:
IF .EXE$GL_ACMFLAGS[ACM$V_PROCESS]
THEN
CASE .ACR[ACR$V_SUBTYPE] FROM ACR$K_INTERACTIVE TO ACR$K_NETWORK OF
SET
[OUTRANGE]: FALSE;
[ACR$K_INTERACTIVE]: .EXE$GL_ACMFLAGS[ACM$V_INTERACTIVE];
[ACR$K_SUBPROCESS]: .EXE$GL_ACMFLAGS[ACM$V_SUBPROCESS];
[ACR$K_DETACHED]: .EXE$GL_ACMFLAGS[ACM$V_DETACHED];
[ACR$K_BATCH]: .EXE$GL_ACMFLAGS[ACM$V_BATCH];
[ACR$K_NETWORK]: .EXE$GL_ACMFLAGS[ACM$V_NETWORK];
TES
ELSE
FALSE;

[ACR$K_IMGDEL, ACR$K_IMGPUR]:
CASE .ACR[ACR$V_SUBTYPE] FROM ACR$K_INTERACTIVE TO ACR$K_NETWORK OF
SET
[OUTRANGE]: FALSE;
[ACR$K_INTERACTIVE]: .EXE$GL_ACMFLAGS[ACM$V_INTERACTIVE];
[ACR$K_SUBPROCESS]: .EXE$GL_ACMFLAGS[ACM$V_SUBPROCESS];
[ACR$K_DETACHED]: .EXE$GL_ACMFLAGS[ACM$V_DETACHED];
[ACR$K_BATCH]: .EXE$GL_ACMFLAGS[ACM$V_BATCH];
[ACR$K_NETWORK]: .EXE$GL_ACMFLAGS[ACM$V_NETWORK];
TES;

[ACR$K_SYSINIT, ACR$K_SETTIME, ACR$K_ENABLE, ACR$K_DISABLE,
ACR$K_ALTACM, ACR$K_FILE_FL, ACR$K_FILE_BL]:
TRUE;

[ACR$K_LOGFAIL]:
.EXE$GL_ACMFLAGS[ACM$V_LOGFAIL];

[ACR$K_PRINT]:
.EXE$GL_ACMFLAGS[ACM$V_PRINT];

[ACR$K_USER]:
.EXE$GL_ACMFLAGS[ACM$V_USER_DATA];

TES
END
THEN
BEGIN
LABEL
WRITE_RECORD;
```



```
237      1275 5      LOCAL
238      1276 5      RAB:
239      1277 5      REF BBLOCK;      ! Pointer to RAB
240      1278 5
241      1279 5  WRITE_RECORD:
242      1280 6      BEGIN
243      1281 6
244      1282 6      ! Pick up a pointer to the RAB.
245      1283 6
246      1284 6      RAB = .ACCOUNTING_RABS[0];
247      1285 6
248      1286 6
249      1287 6      ! If there is a previous asynchronous operation in progress, wait
250      1288 6      ! for its completion.
251      1289 6
252      1290 6  IF TESTBITSC(RAB[RAB$V_ASY])
253      1291 6  THEN
254      1292 7      BEGIN
255      1293 7      IF NOT $WAIT(RAB=.RAB) THEN LEAVE WRITE_RECORD;
256      1294 6      END;
257      1295 6
258      1296 6
259      1297 6      ! Initialize the record descriptor and write this record.
260      1298 6
261      1299 6      RAB[RAB$W_RSZ] = .ACR[ACR$W_LENGTH];
262      1300 6      RAB[RAB$L_RBF] = .ACR;
263      1301 6      IF NOT $POT(RAB=.RAB) THEN LEAVE WRITE_RECORD;
264      1302 6
265      1303 6
266      1304 6      ! Unless this is an image accounting record, start an asynchronous
267      1305 6      ! $FLUSH to write this record to disk.
268      1306 6
269      1307 7  IF NOT ONEOF_(.ACR[ACR$V_TYPE], BMSK_(ACR$K_IMGDEL, ACR$K_IMGPUR))
270      1308 6  THEN
271      1309 7      BEGIN
272      1310 7      RAB[RAB$V_ASY] = TRUE;
273      1311 7      IF NOT $F[USH(RAB=.RAB) THEN LEAVE WRITE_RECORD;
274      1312 6      END;
275      1313 6
276      1314 6
277      1315 6      ! Completed successfully -- return.
278      1316 6
279      1317 6  RETURN;
280      1318 5  END;      ! block WRITE_RECORD
281      1319 5
282      1320 5
283      1321 5      ! An error occurred writing the record. Report it.
284      1322 5
285      1323 5      SIGNAL_FILE_ERROR(JBC$_WRITEERR + STS$K_ERROR, .FAB, .RAB);
286      1324 5
287      1325 5
288      1326 5      ! Unless the error is "device full", close this accounting file,
289      1327 5      ! try to open a new one, and then try to write the record again.
290      1328 5
291      1329 5  IF .RAB[RAB$L_STS] EQL RMSS$_FUL
292      1330 5  THEN
293      1331 5      EXITLOOP
```



```
: 294      1332 5      ELSE
: 295      1333 5      OPEN_ACCOUNTING_FILE(TRUE);
: 296      1334 5      END
: 297      1335 4      ELSE
: 298      1336 4      RETURN;
: 299      1337 4      END
: 300      1338 3      ELSE
: 301      1339 3      RETURN;
: 302      1340 2      END;
: 303      1341 2
: 304      1342 2
: 305      1343 2      ! Writing has failed. Implicitly disable accounting.
: 306      1344 2
: 307      1345 2      SIGNAL(JBC$ ACCDISERR OR STS$K_INFO);
: 308      1346 2      CLOSE_ACCOUNTING_FILE();
: 309      1347 1      END;
```

```
.TITLE ACCOUNTNG Accounting manager
.IDENT \V04-000\
```

```
.PSECT COMMON,NOEXE, OVR,2
```

```
00000 DIAG_STORAGE BASE:
      .BLKB 0
00000 DIAG_TRACE:
      .BLKB 96
00060 DIAG_COUNT:
      .BLKB 96
000C0 DIAG_FLAGS:
      .BLKB 4
000C4 WORK_AREA:
      .BLKB 44
000F0 SNDJBC_COUNT:
      .BLKB 132
00174 GETQUI_COUNT:
      .BLKB 40
0019C SNDACC_COUNT:
      .BLKB 28
001B8 SNDSMB_COUNT:
      .BLKB 72
00200 DIAG_STORAGE_END:
      .BLKB 0
00200 FLAGS: .BLKB 4
00204 IMAGE_DUMP_STSFLG:
      .BLKB 4
00208 THIS_SYSID:
      .BLKB 6
0020E .BLKB 2
00210 CUR_TIME:
      .BLKB 8
00218 HOURLY_TIME:
      .BLKB 8
00220 HOURLY_PARAMS:
      .BLKB 20
00234 SYMBIONT_COUNT:
      .BLKB 4
```


00238 QUEUE_REFERENCE_COUNT:
 .BLKB 4
0023C MBX_MESSAGE_COUNT:
 .BLKB 4
00240 MBX: .BLKB 4
00244 MBX_END: .BLKB 4
00248 MEMORY_FREE_QUEUES:
 .BLKB 40
00270 NONAST_WORK_QUEUE:
 .BLKB 8
00278 BCB_FREE_LIST:
 .BLKB 4
0027C BCB_ACTIVE_LIST:
 .BLKB 4
00280 GQL_FREE_LIST:
 .BLKB 4
00284 GQL_ACTIVE_LIST:
 .BLKB 4
00288 OPEN_GETQUI_LIST:
 .BLKB 4
0028C PROCESS_DATA_LIST:
 .BLKB 4
00290 SYMBIONT_CONTROL:
 .BLKB 4
00294 SPARE_AREA:
 .BLKB 12
002A0 REMOTE_REQUEST_LKSB:
 .BLKB 8
002A8 QUEUE_FILE_LKSB:
 .BLKB 8
002B0 QUEUE_LOCK_LKSB:
 .BLKB 8
002B8 RSP: .BLKB 8
002C0 JBC_PRIORITY:
 .BLKB 4
002C4 JBC_PRIVILEGES:
 .BLKB 8
002CC JBC_QUOTAS:
 .BLKB 66
0030E .BLKB 2
00310 JBC_UIC: .BLKB 4
00314 QUEUE_FAB:
 .BLKB 80
00364 QUEUE_RAB:
 .BLKB 68
003A8 QUEUE_NAM:
 .BLKB 96
00408 QUEUE_XAB:
 .BLKB 88
00460 QUEUE_RSA:
 .BLKB 255
0055F .BLKB 1
00560 QUEUE_ALQ:
 .BLKB 4
00564 QUEUE_MBF:
 .BLKB 1
00565 .BLKB 3

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00568 ACCOUNTING_FABS:
 .B[KB] 8
00570 ACCOUNTING_RABS:
 .B[KB] 8
00578 ACCOUNT_FAB_A:
 .B[LRB] 80
005C8 ACCOUNT_RAB_A:
 .B[LRB] 68
0060C ACCOUNT_NAM_A:
 .B[LRB] 96
0066C ACCOUNT_RSA_A:
 .B[LRB] 255
0076B .B[KB] 1
0076C ACCOUNT_FAB_B:
 .B[LRB] 80
007BC ACCOUNT_RAB_B:
 .B[LRB] 68
00800 ACCOUNT_NAM_B:
 .B[LRB] 96
00860 ACCOUNT_RSA_B:
 .B[LRB] 255
0095F .B[KB] 1
00960 DIAG_FAB:
 .B[KB] 80
009B0 DIAG_RAB:
 .B[KB] 68
009F4 MBX_CHAN:
 .B[KB] 4
009F8 MBX_IOSB:
 .B[KB] 8
00A00 MBX_BUFFER:
 .B[KB] 1024
00E00 VALUE_STORAGE_BASE:
 .B[KB] 0
00E00 ITEM_PRESENT:
 .B[KB] 32
00E20 VALUE_GETQUI_BASE:
 .B[KB] 0
00E20 VALUE_ACCOUNTING_MESSAGE:
 .B[KB] 6
00E26 VALUE_ACCOUNTING_TYPES:
 .B[KB] 4
00E2A VALUE_AFTER_TIME:
 .B[LRB] 8
00E32 VALUE_ALIGNMENT_PAGES:
 .B[KB] 1
00E33 VALUE_BASE_PRIORITY:
 .B[KB] 1
00E34 VALUE_BATCH_INPUT:
 .B[LRB] 6
00E3A VALUE_BATCH_OUTPUT:
 .B[LRB] 10
00E44 VALUE_BUFFER_COUNT:
 .B[KB] 1
00E45 VALUE_CHARACTERISTIC_NAME:
 .B[KB] 6
00E4B VALUE_CHARACTERISTIC_NUMBER:

00E4C VALUE_CHARACTERISTICS:
.BLKB 1
00E5C VALUE_CHECKPOINT_DATA:
.BLKB 16
.BLKB 6
00E62 VALUE_CLI:
.BLKB 6
00E68 VALUE_CPU_DEFAULT:
.BLKB 4
00E6C VALUE_CPU_LIMIT:
.BLKB 4
00E70 VALUE_DESTINATION_QUEUE:
.BLKB 8
00E78 VALUE_DEVICE_NAME:
.BLKB 6
00E7E VALUE_ENTRY_NUMBER:
.BLKB 4
00E82 VALUE_ENTRY_NUMBER_OUTPUT:
.BLKB 10
00E8C VALUE_EXTEND_QUANTITY:
.BLKB 2
00E8E VALUE_FILE_COPIES:
.BLKB 1
00E8F VALUE_FILE_IDENTIFICATION:
.BLKB 36
00EB3 VALUE_FILE_SETUP_MODULES:
.BLKB 6
00EB9 VALUE_FILE_SPECIFICATION:
.BLKB 6
00EBF VALUE_FIRST_PAGE:
.BLKB 4
00EC3 VALUE_FORM_DESCRIPTION:
.BLKB 6
00EC9 VALUE_FORM_LENGTH:
.BLKB 1
00ECA VALUE_FORM_MARGIN_BOTTOM:
.BLKB 1
00ECB VALUE_FORM_MARGIN_LEFT:
.BLKB 2
00ECD VALUE_FORM_MARGIN_RIGHT:
.BLKB 2
00ECF VALUE_FORM_MARGIN_TOP:
.BLKB 1
00ED0 VALUE_FORM_NAME:
.BLKB 6
00ED6 VALUE_FORM_NUMBER:
.BLKB 4
00EDA VALUE_FORM:
.BLKB 8
00EE2 VALUE_FORM_SETUP_MODULES:
.BLKB 6
00EE8 VALUE_FORM_STOCK:
.BLKB 6
00EEE VALUE_FORM_WIDTH:
.BLKB 2
00EFO VALUE_GENERIC_TARGET:
.BLKB 996

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[JOBCTL.SRC]ACCOUNTING.B32;1

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```

012D4 VALUE_JOB COPIES:
      .BLKB 1
012D5 VALUE_JOB LIMIT:
      .BLKB 1
012D6 VALUE_JOB NAME:
      .BLKB 6
012DC VALUE_JOB RESET_MODULES:
      .BLKB 6
012E2 VALUE_JOB_SIZE_MAXIMUM:
      .BLKB 4
012E6 VALUE_JOB_SIZE_MINIMUM:
      .BLKB 4
012EA VALUE_JOB STATUS OUTPUT:
      .BLKB TO
012F4 VALUE_LAST_PAGE:
      .BLKB 4
012F8 VALUE_LIBRARY_SPECIFICATION:
      .BLKB 6
012FE VALUE_LOG_QUEUE:
      .BLKB 8
01306 VALUE_LOG_SPECIFICATION:
      .BLKB 6
0130C VALUE_NOTE:
      .BLKB 6
01312 VALUE_OPERATOR_REQUEST:
      .BLKB 6
01318 VALUE_OWNER UIC:
      .BLKB 4
0131C VALUE_PAGE_SETUP_MODULES:
      .BLKB 6
01322 VALUE_PARAMETER_1:
      .BLKB 6
01328 VALUE_PARAMETER_2:
      .BLKB 6
0132E VALUE_PARAMETER_3:
      .BLKB 6
01334 VALUE_PARAMETER_4:
      .BLKB 6
0133A VALUE_PARAMETER_5:
      .BLKB 6
01340 VALUE_PARAMETER_6:
      .BLKB 6
01346 VALUE_PARAMETER_7:
      .BLKB 6
0134C VALUE_PARAMETER_8:
      .BLKB 6
01352 VALUE_PRIORITY:
      .BLKB 1
01353 VALUE_PROCESSOR:
      .BLKB 6
01359 VALUE_PROTECTION:
      .BLKB 4
0135D VALUE_QUEUE:
      .BLKB 6
01363 VALUE_QUEUE_FILE_SPECIFICATION:
      .BLKB 6
01369 VALUE_RELATIVE_PAGE:

```


.BLKB 4
0136D VALUE_RESERVED_INPUT_1:
.BLKB 1
0136E VALUE_RESERVED_INPUT_2:
.BLKB 2
01370 VALUE_RESERVED_INPUT_3:
.BLKB 4
01374 VALUE_RESERVED_INPUT_4:
.BLKB 6
0137A VALUE_RESERVED_OUTPUT_1:
.BLKB 10
01384 VALUE_RESERVED_OUTPUT_2:
.BLKB 10
0138E VALUE_SEARCH_STRING:
.BLKB 6
01394 VALUE_SCNODE_NAME:
.BLKB 6
0139A VALUE_WSDEFAULT:
.BLKB 2
0139C VALUE_WSEXTENT:
.BLKB 2
0139E VALUE_WSQUOTA:
.BLKB 2
013A0 VALUE_STORAGE_END:
.BLKB 0

JBC\$_CLOSEOUT= 266328
JBC\$_NOCMKRNL= 272388
JBC\$_NOOPER= 272532
JBC\$_NOSYSNAM= 272404
JBC\$_OPENIN= 266392
JBC\$_OPENOUT= 266400
JBC\$_READERR= 266416
JBC\$_WRITEERR= 266448
.EXTRN FIND_PROCESS_DATA
.EXTRN LOCK_QUEUE_FILE
.EXTRN READ_RECORD, SIGNAL_FILE_ERROR
.EXTRN UNLOCK_QUEUE_FILE
.EXTRN EXE\$GL_ACMFLAGS
.EXTRN SYSS\$WAIT, SYSS\$PUT
.EXTRN SYSS\$FLUSH
.PSECT CODE, NOWRT, 2

003C 00000 WRITE_ACCOUNTING_FILE:

55	00000000G	00	9E	00002	.WORD	Save R2, R3, R4, R5	: 1161
54		02	D0	00009	MOVAB	EXE\$GL_ACMFLAGS, R5	:
53	00000000'	EF	D0	0000C	MOVL	#2, I	: 1197
	02	A3	B5	00013	MOVL	ACCOUNTING_FABS, FAB	: 1206
		01	12	00016	TSTW	2(FAB)	: 1207
			04	00018	BNEQ	2\$:
		01	EF	00019	RET		:
50	67	07	50	CF	EXTZV	#1, #7, (ACR), R0	: 1216
	0D	01			CASEL	R0, #1, #13	:
0036	0036	001D	001D	00022	.WORD	4\$-3\$,-	:
0069	0064	0074	0074	0002A		4\$-3\$,-	:
0074	0074	0074	006E	00032		7\$-3\$,-	:

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PC	Op	Op2	Op3	Op4	Op5	Op6	Op7	Op8	Op9	Op10	Op11	Op12	Op13	Op14	Op15	Op16	Op17	Op18	Op19	Op20	Op21	Op22	Op23	Op24	Op25	Op26	Op27	Op28	Op29	Op30	Op31	Op32	Op33	Op34	Op35	Op36	Op37	Op38	Op39	Op40	Op41	Op42	Op43	Op44	Op45	Op46	Op47	Op48	Op49	Op50	Op51	Op52	Op53	Op54	Op55	Op56	Op57	Op58	Op59	Op60	Op61	Op62	Op63	Op64	Op65	Op66	Op67	Op68	Op69	Op70	Op71	Op72	Op73	Op74	Op75	Op76	Op77	Op78	Op79	Op80	Op81	Op82	Op83	Op84	Op85	Op86	Op87	Op88	Op89	Op90	Op91	Op92	Op93	Op94	Op95	Op96	Op97	Op98	Op99	Op100	Op101	Op102	Op103	Op104	Op105	Op106	Op107	Op108	Op109	Op110	Op111	Op112	Op113	Op114	Op115	Op116	Op117	Op118	Op119	Op120	Op121	Op122	Op123	Op124	Op125	Op126	Op127	Op128	Op129	Op130	Op131	Op132	Op133	Op134	Op135	Op136	Op137	Op138	Op139	Op140	Op141	Op142	Op143	Op144	Op145	Op146	Op147	Op148	Op149	Op150	Op151	Op152	Op153	Op154	Op155	Op156	Op157	Op158	Op159	Op160	Op161	Op162	Op163	Op164	Op165	Op166	Op167	Op168	Op169	Op170	Op171	Op172	Op173	Op174	Op175	Op176	Op177	Op178	Op179	Op180	Op181	Op182	Op183	Op184	Op185	Op186	Op187	Op188	Op189	Op190	Op191	Op192	Op193	Op194	Op195	Op196	Op197	Op198	Op199	Op200	Op201	Op202	Op203	Op204	Op205	Op206	Op207	Op208	Op209	Op210	Op211	Op212	Op213	Op214	Op215	Op216	Op217	Op218	Op219	Op220	Op221	Op222	Op223	Op224	Op225	Op226	Op227	Op228	Op229	Op230	Op231	Op232	Op233	Op234	Op235	Op236	Op237	Op238	Op239	Op240	Op241	Op242	Op243	Op244	Op245	Op246	Op247	Op248	Op249	Op250	Op251	Op252	Op253	Op254	Op255	Op256	Op257	Op258	Op259	Op260	Op261	Op262	Op263	Op264	Op265	Op266	Op267	Op268	Op269	Op270	Op271	Op272	Op273	Op274	Op275	Op276	Op277	Op278	Op279	Op280	Op281	Op282	Op283	Op284	Op285	Op286	Op287	Op288	Op289	Op290	Op291	Op292	Op293	Op294	Op295	Op296	Op297	Op298	Op299	Op300	Op301	Op302	Op303	Op304	Op305	Op306	Op307	Op308	Op309	Op310	Op311	Op312	Op313	Op314	Op315	Op316	Op317	Op318	Op319	Op320	Op321	Op322	Op323	Op324	Op325	Op326	Op327	Op328	Op329	Op330	Op331	Op332	Op333	Op334	Op335	Op336	Op337	Op338	Op339	Op340	Op341	Op342	Op343	Op344	Op345	Op346	Op347	Op348	Op349	Op350	Op351	Op352	Op353	Op354	Op355	Op356	Op357	Op358	Op359	Op360	Op361	Op362	Op363	Op364	Op365	Op366	Op367	Op368	Op369	Op370	Op371	Op372	Op373	Op374	Op375	Op376	Op377	Op378	Op379	Op380	Op381	Op382	Op383	Op384	Op385	Op386	Op387	Op388	Op389	Op390	Op391	Op392	Op393	Op394	Op395	Op396	Op397	Op398	Op399	Op400	Op401	Op402	Op403	Op404	Op405	Op406	Op407	Op408	Op409	Op410	Op411	Op412	Op413	Op414	Op415	Op416	Op417	Op418	Op419
----	----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

ACCOUNTNG
V04-000

Accounting manager

C 1
15-Sep-1984 23:46:25
14-Sep-1984 12:36:55

VAX-11 Bliss-32 V4.0-742
[JOBCTL.SRC]ACCOUNTNG.B32;1

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(3)

50	67	07	01	EF	000C3	EXTZV	#1, #7, (ACR), R0	: 1307
	50	8F	50	78	000C8	ASHL	R0, #402653184, R0	: 1310
	04	A2	4C	19	000D0	BLSS	22\$: 1311
			01	88	000D2	BISB2	#1, 4(RAB)	: 1323
	00000000G	00	52	DD	000D6	PUSHL	RAB	: 1329
		3C	01	FB	000D8	CALLS	#1, SYSS\$FLUSH	: 1333
			50	E8	000DF	BLBS	R0, 22\$: 1197
			52	DD	000E2	PUSHL	RAB	: 1345
			53	DD	000E4	PUSHL	FAB	: 1346
			8F	DD	000E6	PUSHL	#266450	: 1347
	00000000G	EF	03	FB	000EC	CALLS	#3, SIGNAL_FILE_ERROR	
	00018544	8F	A2	D1	000F3	CMPL	8(RAB), #99652	
			0F	13	000FB	BEQL	21\$	
			01	DD	000FD	PUSHL	#1	
	0000V	CF	01	FB	000FF	CALLS	#1, OPEN_ACCOUNTING_FILE	
		02	54	F5	00104	SOBGTR	I, 20\$	
			03	11	00107	BRB	21\$	
			FF00	31	00109	BRW	1\$	
			8F	DD	0010C	PUSHL	#295939	
	G0000000G	00	01	FB	00112	CALLS	#1, LIB\$SIGNAL	
	0000V	CF	00	FB	00119	CALLS	#0, CLOSE_ACCOUNTING_FILE	
			04	0011E	22\$:	RET		

; Routine Size: 287 bytes, Routine Base: CODE + 0000


```
311 1348 1 GLOBAL ROUTINE OPEN_ACCOUNTING_FILE(NEW): NOVALUE=
312 1349 1
313 1350 1 ++
314 1351 1
315 1352 1 FUNCTIONAL DESCRIPTION:
316 1353 1 This routine opens an accounting file. If one is already open, it is
317 1354 1 closed and a new copy created.
318 1355 1
319 1356 1 INPUT PARAMETERS:
320 1357 1 NEW - True if a new file must be created.
321 1358 1
322 1359 1 IMPLICIT INPUTS:
323 1360 1 NONE
324 1361 1
325 1362 1 OUTPUT PARAMETERS:
326 1363 1 NONE
327 1364 1
328 1365 1 IMPLICIT OUTPUTS:
329 1366 1 NONE
330 1367 1
331 1368 1 ROUTINE VALUE:
332 1369 1 NONE
333 1370 1
334 1371 1 SIDE EFFECTS:
335 1372 1 Accounting file opened.
336 1373 1
337 1374 1 --
338 1375 1
339 1376 2 BEGIN
340 1377 2 LOCAL
341 1378 2 OLD_IFI,
342 1379 2 OLD_FAB: REF BBLOCK, ! Previous IFI value for current file
343 1380 2 OLD_RAB: REF BBLOCK, ! Current FAB
344 1381 2 NEW_FAB: REF BBLOCK, ! Current RAB
345 1382 2 NEW_RAB: REF BBLOCK; ! Next FAB
346 1383 2
347 1384 2
348 1385 2 ! If this is the first call, initialize.
349 1386 2
350 1387 2 IF .ACCOUNTING_FABS[0] EQL 0
351 1388 2 THEN
352 1389 2 BEGIN
353 1390 2 ACCOUNTING_FABS[0] = ACCOUNT_FAB_A;
354 1391 2 ACCOUNTING_FABS[1] = ACCOUNT_FAB_B;
355 1392 2 ACCOUNTING_RABS[0] = ACCOUNT_RAB_A;
356 1393 2 ACCOUNTING_RABS[1] = ACCOUNT_RAB_B;
357 1394 2 $FAB_INIT(FAB=ACCOUNT_FAB_A,
358 1395 2 FAC=PUT,
359 1396 2 FNA=UPLIT BYTE('ACCOUNTNG'),
360 1397 2 FNS=%CHARCOUNT('ACCOUNTNG'),
361 1398 2 DNA=UPLIT BYTE('SYSSMANAGER:.DAT'),
362 1399 2 DNS=%CHARCOUNT('SYSSMANAGER:.DAT'),
363 1400 2 FOP=CIF,
364 1401 2 DEQ=25,
365 1402 2 ORG=SEQ,
366 1403 2 RFM=VAR,
367 1404 2 NAM=ACCOUNT_NAM_A,
```



```
368      SHR=<GET,UPI>;
369      P 1406      $RAB_INIT(RAB=ACCOUNT_RAB_A,
370      P 1407      FAB=ACCOUNT_FAB_A,
371      P 1408      MBC=1,
372      P 1409      MBF=2,
373      P 1410      RAC=SEQ,
374      P 1411      ROP=<EOF,WBH>);
375      P 1412      $NAM_INIT(NAM=ACCOUNT_NAM_A,
376      P 1413      RSA=ACCOUNT_RSA_A,
377      1414      RSS=NAM$C_MXRSS);
378      1415      CH$MOVE(FAB$C_BLN, ACCOUNT_FAB_A, ACCOUNT_FAB_B);
379      1416      CH$MOVE(RAB$C_BLN, ACCOUNT_RAB_A, ACCOUNT_RAB_B);
380      1417      CH$MOVE(NAM$C_BLN, ACCOUNT_NAM_A, ACCOUNT_NAM_B);
381      1418      ACCOUNT_FAB_B[FAB$L_NAM] = ACCOUNT_NAM_B;
382      1419      ACCOUNT_RAB_B[RAB$L_FAB] = ACCOUNT_FAB_B;
383      1420      ACCOUNT_NAM_B[NAM$L_RSA] = ACCOUNT_RSA_B;
384      1421      END;
385      1422
386      1423      ! Pick up pointers to the current and new FAB and RAB.
387      1424      !
388      1425      !
389      1426      OLD_FAB = .ACCOUNTING_FABS[0];
390      1427      NEW_FAB = .ACCOUNTING_FABS[1];
391      1428      OLD_RAB = .ACCOUNTING_RABS[0];
392      1429      NEW_RAB = .ACCOUNTING_RABS[1];
393      1430
394      1431      !
395      1432      ! If an accounting file is currently open, unconditionally create a new file.
396      1433      ! Otherwise, use the CIF option to connect to the end of the existing file.
397      1434      ! Set up ALQ for no initial allocation.
398      1435      !
399      1436      NEW_FAB[FAB$V_CIF] = TRUE;
400      1437      OLD_IFI = .OLD_FAB[FAB$W_IFI];
401      1438      IF .OLD_IFI NEQ 0 OR .NEW THEN NEW_FAB[FAB$V_CIF] = FALSE;
402      1439
403      1440      !
404      1441      ! Create or open the file. Accept an error that occurs during a create-if,
405      1442      ! and loop to create a new version.
406      1443      !
407      1444      WHILE TRUE DO
408      1445      BEGIN
409      1446      NEW_FAB[FAB$L_ALQ] = 0;
410      1447      IF NOT $CREATE(FAB=.NEW_FAB)
411      1448      THEN
412      1449      BEGIN
413      1450      IF TESTBITCC(NEW_FAB[FAB$V_CIF])
414      1451      THEN
415      1452      BEGIN
416      1453      SIGNAL_FILE_ERROR(JBC$_OPENOUT + STS$_ERROR, .NEW_FAB, .NEW_FAB);
417      1454      EXITLOOP;
418      1455      END;
419      1456      END
420      1457      ELSE
421      1458      BEGIN
422      1459      IF NOT $CONNECT(RAB=.NEW_RAB)
423      1460      THEN
424      1461      BEGIN
```



```

: 425      1462 5      SIGNAL_FILE_ERROR(JBC$_OPENOUT + STS$_ERROR, .NEW_FAB, .NEW_RAB);
: 426      1463 5      $CLOSE(FAB=.NEW_FAB);
: 427      1464 5      NEW_FAB[FAB$_IF1] = 0;
: 428      1465 4      END;
: 429      1466 4      EXITLOOP;
: 430      1467 3      END;
: 431      1468 2      END;
: 432      1469 2
: 433      1470 2
: 434      1471 2      ! If an accounting file was previously open and a new file has been created,
: 435      1472 2      ! write the file forward link record. Omit this if forced creation of a new
: 436      1473 2      ! file is requested, since the previous file sustained an error.
: 437      1474 2
: 438      1475 3      IF (NOT .NEW_FAB[FAB$_CIF] OR .NEW_FAB[FAB$_STS] EQL RMS$_CREATED)
: 439      1476 2      AND .OLD_IF1 NEQ 0
: 440      1477 2      THEN
: 441      1478 2      BEGIN
: 442      1479 3      IF NOT .NEW THEN WRITE_FILE_LINK_RECORD(ACR$_FILE_FL, .NEW_FAB);
: 443      1480 3      CLOSE_ACCOUNTING_FILE();
: 444      1481 2      END;
: 445      1482 2
: 446      1483 2
: 447      1484 2      ! Exchange FAB and RAB pointers.
: 448      1485 2
: 449      1486 2      ACCOUNTING_FABS[0] = .NEW_FAB;
: 450      1487 2      ACCOUNTING_FABS[1] = .OLD_FAB;
: 451      1488 2      ACCOUNTING_RABS[0] = .NEW_RAB;
: 452      1489 2      ACCOUNTING_RABS[1] = .OLD_RAB;
: 453      1490 2
: 454      1491 2
: 455      1492 2      ! If an accounting file was previously open, write the file back link record.
: 456      1493 2
: 457      1494 2      IF .OLD_IF1 NEQ 0 THEN WRITE_FILE_LINK_RECORD(ACR$_FILE_BL, .OLD_FAB);
: 458      1495 1      END;
```

```

41  44  2E  3A  52  45  47  41  4E  41  4D  24  53  59  53  00128 P.AAB: .ASCII \SYSSMANAGER:.DAT\
                                54  00137
```

```

                                $RMS_PTR=      ACCOUNT_FAB_A
                                $RMS_PTR=      ACCOUNT_RAB_A
                                $RMS_PTR=      ACCOUNT_NAM_A
                                .EXTRN      SYSS$CREATE, SYSS$CONNECT
                                .EXTRN      SYSS$CLOSE

                                01FC 00000      .ENTRY      OPEN_ACCOUNTING_FILE, Save R2,R3,R4,R5,R6,- : 1348
                                58 00000000G EF 9E 00002      R7,R8
                                57 00000000 EF 9E 00009      MOVAB      SIGNAL_FILE_ERROR, R8
                                F0 A7 D5 00010      MOVAB      ACCOUNT_FAB_A, R7
                                03 13 00013      TSTL      ACCOUNTING_FABS : 1387
                                00C0 31 00015      BEQL      1$
                                F0 A7 67 9E 00018 1$:      BRW      2$
                                F4 A7 01F4 C7 9E 0001C      MOVAB      ACCOUNT_FAB_A, ACCOUNTING_FABS : 1390
                                F8 A7 50 A7 9E 00022      MOVAB      ACCOUNT_FAB_B, ACCOUNTING_FABS+4 : 1391
                                MOVAB      ACCOUNT_RAB_A, ACCOUNTING_RABS : 1392
```


0050	8F	00	FC	A7	0244	C7	9E	00027	MOVAB	ACCOUNT_RAB_B, ACCOUNTING_RABS+4	1393
				6E		00	2C	0002D	MOVCS	#0, (SP), #0, #80, \$RMS_PTR	1405
				67	5003	67		00034			
				04	02000000	8F	B0	00035	MOVW	#20483, \$RMS_PTR	
				14	42010019	8F	D0	0003A	MOVL	#33554432, \$RMS_PTR+4	
					1D	8F	D0	00042	MOVL	#1107361817, \$RMS_PTR+20	
				1F		A7	94	0004A	CLRB	\$RMS_PTR+29	
				28	0094	02	90	0004D	MOVAB	#2, \$RMS_PTR+31	
				2C	8D	C7	9E	00051	MOVAB	ACCOUNT_NAM_A, \$RMS_PTR+40	
				30	91	AF	9E	00057	MOVAB	P.AAA, \$RMS_PTR+44	
				34	1009	AF	9E	0005C	MOVAB	P.AAB, \$RMS_PTR+48	
0044	8F	00				8F	B0	00061	MOVW	#4105, \$RMS_PTR+52	
						00	2C	00067	MOVCS	#0, (SP), #0, #68, \$RMS_PTR	1411
					50	A7		0006E			
					4401	8F	B0	00070	MOVW	#17409, \$RMS_PTR	
					0500	8F	3C	00076	MOVZWL	#1280, \$RMS_PTR+4	
					6E	A7	94	0007C	CLRB	\$RMS_PTR+30	
			0086	C7	0102	8F	B0	0007F	MOVW	#258, \$RMS_PTR+54	
0060	8F	00	008C	C7		67	9E	00086	MOVAB	ACCOUNT_FAB_A, \$RMS_PTR+60	
				6E		00	2C	0008B	MOVCS	#0, (SP), #0, #96, \$RMS_PTR	1414
					0094	C7		00092			
					6002	8F	B0	00095	MOVW	#24578, \$RMS_PTR	
						01	8E	0009C	MNEGB	#1, \$RMS_PTR+2	
					00F4	C7	9E	000A1	MOVAB	ACCOUNT_RSA_A, \$RMS_PTR+4	
					0050	8F	28	000A8	MOVCS	#80, ACCOUNT_FAB_A, ACCOUNT_FAB_B	1415
					0044	8F	28	000B0	MOVCS	#68, ACCOUNT_RAB_A, ACCOUNT_RAB_B	1416
					0060	8F	28	000B9	MOVCS	#96, ACCOUNT_NAM_A, ACCOUNT_NAM_B	1417
					0288	C7	9E	000C3	MOVAB	ACCOUNT_NAM_B, ACCOUNT_FAB_B+40	1418
					01F4	C7	9E	000CA	MOVAB	ACCOUNT_FAB_B, ACCOUNT_RAB_B+60	1419
					02E8	C7	9E	000D1	MOVAB	ACCOUNT_RSA_B, ACCOUNT_NAM_B+4	1420
					F0	A7	D0	000D8	MOVL	ACCOUNTING_FABS, OLD_FAB	1426
					F4	A7	D0	000DC	MOVL	ACCOUNTING_FABS+4, NEW_FAB	1427
					F8	A7	D0	000E0	MOVL	ACCOUNTING_RABS, OLD_RAB	1428
					FC	A7	D0	000E4	MOVL	ACCOUNTING_RABS+4, NEW_RAB	1429
			07	A2		02	88	000E8	BISB2	#2, 7(NEW_FAB)	1436
				50	02	A3	3C	000EC	MOVZWL	2(OLD_FAB), OLD_IFI	1437
						54	D4	000F0	CLRL	R4	1438
						50	D5	000F2	TSTL	OLD_IFI	
						04	13	000F4	BEQL	3\$	
						54	D6	000F6	INCL	R4	
						04	11	000F8	BRB	4\$	
				04	04	AC	E9	000FA	BLBC	NEW, 5\$	
			07	A2		02	8A	000FE	BICB2	#2, 7(NEW_FAB)	
					10	A2	D4	00102	CLRL	16(NEW_FAB)	1446
						52	DD	00105	PUSHL	NEW_FAB	1447
			00000000G	00		01	FB	00107	CALLS	#1, -SYSS\$CREATE	
				14		50	E8	0010E	BLBS	R0, 6\$	
			EC	04	A2	19	E4	00111	BBSC	#25, 4(NEW_FAB), 5\$	1450
						52	DD	00116	PUSHL	NEW_FAB	1453
						52	DD	00118	PUSHL	NEW_FAB	
					000410A2	8F	DD	0011A	PUSHL	#266402	
					68	03	FB	00120	CALLS	#3, SIGNAL_FILE_ERROR	
						23	11	00123	BRB	7\$	1452
						55	DD	00125	PUSHL	NEW_RAB	1459
			00000000G	00		01	FB	00127	CALLS	#1, -SYSS\$CONNECT	
				17		50	E8	0012E	BLBS	R0, 7\$	
						24	BB	00131	PUSHR	#^M<R2,R5>	1462

		000410A2	8F	DD	00133	PUSHL	#266402	:
	68		03	FB	00139	CALLS	#3, SIGNAL_FILE_ERROR	:
			52	DD	0013C	PUSHL	NEW_FAB	1463
00000000G	00		01	FB	0013E	CALLS	#1, -SYSS\$CLOSE	:
		02	A2	B4	00145	CLRW	2(NEW_FAB)	1464
0A	07	A2	01	E1	00148	BBC	#1, 7(NEW_FAB), 8\$	1475
00010619	8F	08	A2	D1	0014D	CMPL	8(NEW_FAB), #67097	:
			15	12	00155	BNEQ	10\$:
	12		54	E9	00157	BLBC	R4, 10\$	1476
	09	04	AC	E8	0015A	BLBS	NEW, 9\$	1479
			52	DD	0015E	PUSHL	NEW_FAB	:
			0D	DD	00160	PUSHL	#13-	:
0000V	CF		02	FB	00162	CALLS	#2, WRITE_FILE_LINK_RECORD	:
0000V	CF		00	FB	00167	CALLS	#0, CLOSE_ACCOUNTING_FILE	1480
F0	A7		52	7D	0016C	MOVQ	NEW_FAB, ACCOUNTING_FABS	1486
F8	A7		55	7D	00170	MOVQ	NEW_RAB, ACCOUNTING_RABS	1488
	09		54	E9	00174	BLBC	R4, 11\$	1494
			53	DD	00177	PUSHL	OLD_FAB	:
			0E	DD	00179	PUSHL	#14-	:
0000V	CF		02	FB	0017B	CALLS	#2, WRITE_FILE_LINK_RECORD	:
			04	00180	11\$:	RET		1495

; Routine Size: 385 bytes, Routine Base: CODE + 0138


```
1496 1 GLOBAL ROUTINE CLOSE_ACCOUNTING_FILE: NOVALUE=
1497 1
1498 1 !++
1499 1
1500 1 FUNCTIONAL DESCRIPTION:
1501 1     This routine closes an accounting file, if one is open.
1502 1
1503 1 INPUT PARAMETERS:
1504 1     NONE
1505 1
1506 1 IMPLICIT INPUTS:
1507 1     NONE
1508 1
1509 1 OUTPUT PARAMETERS:
1510 1     NONE
1511 1
1512 1 IMPLICIT OUTPUTS:
1513 1     NONE
1514 1
1515 1 ROUTINE VALUE:
1516 1     NONE
1517 1
1518 1 SIDE EFFECTS:
1519 1     Accounting file closed.
1520 1
1521 1 !--
1522 1
1523 2 BEGIN
1524 2 LOCAL
1525 2     FAB:          REF BBLOCK,      ! Pointer to FAB
1526 2     RAB:          REF BBLOCK;      ! Pointer to RAB
1527 2
1528 2
1529 2 FAB = .ACCOUNTING_FABS[0];
1530 2 RAB = .ACCOUNTING_RABS[0];
1531 2
1532 2
1533 2 IF .FAB[FAB$W_IFI] NEQ 0
1534 2 THEN
1535 3 BEGIN
1536 3 IF TESTBITSC(RAB[RAB$V_ASY])
1537 3 THEN
1538 4 IF NOT $WAIT(RAB=.RAB)
1539 3 THEN
1540 3     SIGNAL_FILE_ERROR(JBC$_WRITEERR + STS$K_ERROR, .FAB, .RAB);
1541 3
1542 3
1543 4 IF NOT $CLOSE(FAB=.FAB)
1544 3 THEN
1545 3     SIGNAL_FILE_ERROR(JBC$_CLOSEOUT + STS$K_ERROR, .FAB, .FAB);
1546 3
1547 3
1548 3 FAB[FAB$W_IFI] = 0;
1549 2 END;
1550 1 END;
```


			001C 00000	.ENTRY	CLOSE ACCOUNTING FILE, Save R2,R3,R4	: 1496
	54	00000000G	EF 9E 00002	MOVAB	SIGNAL_FILE_ERROR, R4	: 1529
	53	000000000'	EF D0 00009	MOVL	ACCOUNTING_FABS, FAB	: 1530
	52	000000000'	EF D0 00010	MOVL	ACCOUNTING_RABS, RAB	: 1533
		02	A3 B5 00017	TSTW	2(FAB)	: 1536
19	04	A2	3A 13 0001A	BEQL	3\$: 1538
			00 E5 0001C	BBCC	#0, 4(RAB), 1\$: 1540
	00000000G	00	52 DD 00021	PUSHL	RAB	: 1543
		0D	01 FB 00023	CALLS	#1, SYSS\$WAIT	: 1545
			50 E8 0002A	BLBS	R0, 1\$: 1548
			52 DD 0002D	PUSHL	RAB	: 1550
			53 DD 0002F	PUSHL	FAB	: 1553
		000410D2	8F DD 00031	PUSHL	#266450	: 1556
	64		03 FB 00037	CALLS	#3, SIGNAL_FILE_ERROR	: 1559
			53 DD 0003A 1\$:	PUSHL	FAB	: 1562
	00000000G	00	01 FB 0003C	CALLS	#1, SYSS\$CLOSE	: 1565
		0D	50 E8 00043	BLBS	R0, 2\$: 1568
			53 DD 00046	PUSHL	FAB	: 1571
			53 DD 00048	PUSHL	FAB	: 1574
		0004105A	8F DD 0004A	PUSHL	#266330	: 1577
	64		03 FB 00050	CALLS	#3, SIGNAL_FILE_ERROR	: 1580
		02	A3 B4 00053 2\$:	CLRW	2(FAB)	: 1583
			04 00056 3\$:	RET		: 1586

; Routine Size: 87 bytes, Routine Base: CODE + 02B9


```
516 M 1551 1 MACRO ACM_RECORD(TYPE,SUBTYPE,TIME,ACR)=
517 M 1552 1
518 M 1553 1 ++
519 M 1554 1
520 M 1555 1 FUNCTIONAL DESCRIPTION:
521 M 1556 1 This macro builds the record header.
522 M 1557 1
523 M 1558 1 INPUT PARAMETERS:
524 M 1559 1 TYPE - Record type.
525 M 1560 1 SUBTYPE - Record subtype.
526 M 1561 1 TIME - Pointer to quadword event time.
527 M 1562 1 ACR - Pointer to accounting record buffer.
528 M 1563 1
529 M 1564 1 IMPLICIT INPUTS:
530 M 1565 1 NONE
531 M 1566 1
532 M 1567 1 OUTPUT PARAMETERS:
533 M 1568 1 NONE
534 M 1569 1
535 M 1570 1 IMPLICIT OUTPUTS:
536 M 1571 1 Record header built in record buffer.
537 M 1572 1
538 M 1573 1 SIDE EFFECTS:
539 M 1574 1 NONE
540 M 1575 1
541 M 1576 1 --
542 M 1577 1
543 M 1578 1 BEGIN
544 M 1579 1 BBLOCK[ACR, ACR$W_LENGTH] = ACR$K_HDRLEN;
545 M 1580 1 %IF %CTCE(TYPE) AND %CTCE(SUBTYPE)
546 M 1581 1 %THEN
547 M 1582 1 BBLOCK[ACR, ACR$W_TYPE] =
548 M 1583 1 (TYPE) ^ $BITPOSITION(ACR$V_TYPE) OR
549 M 1584 1 (SUBTYPE) ^ $BITPOSITION(ACR$V_SUBTYPE) OR
550 M 1585 1 ACR$K_CURVER ^ $BITPOSITION(ACR$V_VERSION)
551 M 1586 1 %ELSE
552 M 1587 1 %IF %CTCE(SUBTYPE)
553 M 1588 1 %THEN
554 M 1589 1 BBLOCK[ACR, ACR$W_TYPE] =
555 M 1590 1 (SUBTYPE) ^ $BITPOSITION(ACR$V_SUBTYPE) OR
556 M 1591 1 ACR$K_CURVER ^ $BITPOSITION(ACR$V_VERSION);
557 M 1592 1 BBLOCK[ACR, ACR$V_TYPE] = (TYPE)
558 M 1593 1 %ELSE
559 M 1594 1 BBLOCK[ACR, ACR$W_TYPE] =
560 M 1595 1 ACR$K_CURVER ^ $BITPOSITION(ACR$V_VERSION);
561 M 1596 1 BBLOCK[ACR, ACR$V_TYPE] = (TYPE);
562 M 1597 1 BBLOCK[ACR, ACR$V_SUBTYPE] = (SUBTYPE)
563 M 1598 1 %FI
564 M 1599 1 %FI;
565 M 1600 1 (BBLOCK[ACR, ACR$Q_SYSTIME]+0) = .VECTOR[TIME, 0];
566 M 1601 1 (BBLOCK[ACR, ACR$Q_SYSTIME]+4) = .VECTOR[TIME, 1];
567 M 1602 1 END %;
```



```
: 569 M 1603 1 MACRO ACM_PACKET(TYPE,SUBTYPE,ACR,APK)=
: 570 M 1604 1
: 571 M 1605 1 ++
: 572 M 1606 1
: 573 M 1607 1 FUNCTIONAL DESCRIPTION:
: 574 M 1608 1 This macro builds the packet header.
: 575 M 1609 1
: 576 M 1610 1 INPUT PARAMETERS:
: 577 M 1611 1 TYPE - Packet type.
: 578 M 1612 1 SUBTYPE - Packet subtype.
: 579 M 1613 1 ACR - Pointer to accounting record buffer.
: 580 M 1614 1
: 581 M 1615 1 IMPLICIT INPUTS:
: 582 M 1616 1 NONE
: 583 M 1617 1
: 584 M 1618 1 OUTPUT PARAMETERS:
: 585 M 1619 1 APK - Pointer to packet.
: 586 M 1620 1
: 587 M 1621 1 IMPLICIT OUTPUTS:
: 588 M 1622 1 Packet header built in record buffer.
: 589 M 1623 1
: 590 M 1624 1 SIDE EFFECTS:
: 591 M 1625 1 NONE
: 592 M 1626 1
: 593 M 1627 1 --
: 594 M 1628 1
: 595 M 1629 1 BEGIN
: 596 M 1630 1 APK = (ACR) + .BBLOCK[ACR, ACR$W_LENGTH];
: 597 M 1631 1 APK[ACR$W_LENGTH] = 0;
: 598 M 1632 1 %IF %CTCE(TYPE) AND %CTCE(SUBTYPE)
: 599 M 1633 1 %THEN
: 600 M 1634 1 APK[ACR$W_TYPE] =
: 601 M 1635 1 ACR$M_PACKET OR
: 602 M 1636 1 (TYPE) ^ $BITPOSITION(ACR$V_TYPE) OR
: 603 M 1637 1 (SUBTYPE) ^ $BITPOSITION(ACR$V_SUBTYPE) OR
: 604 M 1638 1 ACR$K_CURVER ^ $BITPOSITION(ACR$V_VERSION)
: 605 M 1639 1 %ELSE
: 606 M 1640 1 APK[ACR$W_TYPE] =
: 607 M 1641 1 ACR$M_PACKET OR
: 608 M 1642 1 ACR$K_CURVER ^ $BITPOSITION(ACR$V_VERSION);
: 609 M 1643 1 APK[ACR$V_TYPE] = (TYPE);
: 610 M 1644 1 APK[ACR$V_SUBTYPE] = (SUBTYPE)
: 611 M 1645 1 %FI;
: 612 M 1646 1 END %;
```



```
1647 1 ROUTINE IDENT_PACKET: L_IDENT_PACKET NOVALUE=
1648 1
1649 1 ++
1650 1
1651 1 FUNCTIONAL DESCRIPTION:
1652 1 This routine builds the identification packet.
1653 1
1654 1 INPUT PARAMETERS:
1655 1 NONE
1656 1
1657 1 IMPLICIT INPUTS:
1658 1 ACM - Pointer to mailbox message.
1659 1 ACR - Pointer to accounting record buffer.
1660 1 SJH - Pointer to SJH or 0.
1661 1 SMQ - Pointer to SMQ or 0.
1662 1
1663 1 OUTPUT PARAMETERS:
1664 1 NONE
1665 1
1666 1 IMPLICIT OUTPUTS:
1667 1 Identification packet built in record buffer.
1668 1
1669 1 ROUTINE VALUE:
1670 1 NONE
1671 1
1672 1 SIDE EFFECTS:
1673 1 NONE
1674 1
1675 1 --
1676 1
1677 2 BEGIN
1678 2 EXTERNAL REGISTER
1679 2 ACM = ACCT_ACM_REG: REF BBLOCK, ! Pointer to mailbox message
1680 2 ACR = ACCT_ACR_REG: REF BBLOCK, ! Pointer to record buffer
1681 2 SJH = ACCT_SJH_REG: REF BBLOCK, ! Pointer to SJH
1682 2 SMQ = ACCT_SMQ_REG: REF BBLOCK; ! Pointer to SMQ
1683 2 LOCAL
1684 2 APK: REF BBLOCK; ! Pointer to packet
1685 2 REGISTER
1686 2 P = 3; ! Pointer to free byte
1687 2
1688 2
1689 2 ACM_PACKET(ACR$K_ID, 0, .ACR, APK);
1690 2 APK[ACR$K_PID] = .ACM[ACM$K_PID];
1691 2 APK[ACR$K_OWNER] = .ACM[ACM$K_OWNER];
1692 2 APK[ACR$K_UIC] = .ACM[ACM$K_UIC];
1693 2 (APK[ACR$Q_PRIV]+0) = .(ACM[ACM$Q_PRVMSK]+0);
1694 2 (APK[ACR$Q_PRIV]+4) = .(ACM[ACM$Q_PRVMSK]+4);
1695 2 APK[ACR$B_PRI] = .ACM[ACM$B_PROCPRI];
1696 2 (APK[ACR$B_PRI]+1)<0,8> = 0;
1697 2
1698 2
1699 2 APK[ACR$W_ACCOUNT] = 0;
1700 2 APK[ACR$W_NODENAME] = 0;
1701 2 APK[ACR$W_TERMINAL] = 0;
1702 2 APK[ACR$W_JOBNAME] = 0;
1703 2 APK[ACR$K_JOBID] = 0;
```



```

671 1704 2 APK[ACR$W_QUEUE] = 0;
672 1705 2 APK[ACR$W_NODEADDR] = 0;
673 1706 2 APK[ACR$W_REMOTEID] = 0;
674 1707 2 P = APK[ACR$K_IDVAR,0,0,0];
675 1708 2
676 1709 2
677 1710 3 BEGIN ! block to use output registers
678 1711 3 REGISTER
679 1712 3 RO = 0;
680 1713 3
681 1714 3 APK[ACR$W_USERNAME] = .P - .APK;
682 1715 3 LOCC(%REF(%C' '), %REF(ACM$$_USERNAME), ACM[ACM$T_USERNAME]; RO);
683 1716 3 RO = ACM$$_USERNAME - .RO;
684 1717 3 (.P)<0,8> = .RO;
685 1718 3 P = .P + 1;
686 1719 3 MOVC3(RO, ACM[ACM$T_USERNAME], .P; ..., P);
687 1720 2 END; ! block to use output registers
688 1721 2
689 1722 2
690 1723 3 BEGIN ! block to use output registers
691 1724 3 REGISTER
692 1725 3 RO = 0,
693 1726 3 R1 = 1 : REF VECTOR[,BYTE];
694 1727 3
695 1728 3 !
696 1729 3 ! Strip leading binary nulls and trailing blanks from the account name.
697 1730 3 ! Don't move over the account name at all if it is totally binary nulls.
698 1731 3 !
699 1732 3 IF SKPC(%REF(0), %REF(ACM$$_ACCOUNT), ACM[ACM$T_ACCOUNT]; RO, R1)
700 1733 3 THEN
701 1734 4 BEGIN
702 1735 4 DO
703 1736 5 BEGIN
704 1737 5 IF .R1[.RO - 1] NEQ %C' '
705 1738 5 THEN
706 1739 5 EXITLOOP;
707 1740 5 RO = .RO - 1;
708 1741 5 END
709 1742 4 WHILE .RO GTR 0;
710 1743 4 APK[ACR$W_ACCOUNT] = .P - .APK;
711 1744 4 (.P)<0,8> = .RO;
712 1745 4 P = .P + 1;
713 1746 4 MOVC3(RO, .R1, .P; ..., P);
714 1747 3 END;
715 1748 2 END; ! block to use output registers
716 1749 2
717 1750 2
718 P 1751 2 IF ONEOF (.ACR[ACR$V_TYPE], BMSK_(
719 1752 3 ACR$R_PRCDEL, ACR$K_LOGFAIL, ACR$K_IMGDEL, ACR$K_PRCPUR, ACR$K_IMGPUR))
720 1753 2 THEN
721 1754 3 BEGIN
722 1755 3 IF .ACM[ACM$W_NODEADDR] NEQ 0
723 1756 3 THEN
724 1757 4 BEGIN
725 1758 4 LOCAL
726 1759 4 Q: REF VECTOR[,BYTE], ! Pointer to ASCII data
727 1760 4 L: ! Length of data
```



```
: 728      1761  4
: 729      1762  4      Q = .ACM + .ACM[ACMSW_NODEADDR];
: 730      1763  4      L = .Q[0];
: 731      1764  4      IF .L NEQ 0
: 732      1765  4      THEN
: 733      1766  5          BEGIN
: 734      1767  5              APK[ACRSW_NODEADDR] = .P - .APK;
: 735      1768  5              MOVC3(%REF(.L + 1), .Q, .P; ..., P);
: 736      1769  4              END;
: 737      1770  3      END;
: 738      1771  3
: 739      1772  3
: 740      1773  3      IF .ACM[ACMSW_NODENAME] NEQ 0
: 741      1774  3      THEN
: 742      1775  4          BEGIN
: 743      1776  4              LOCAL
: 744      1777  4                  Q:          REF VECTOR[BYTE],      ! Pointer to ASCII data
: 745      1778  4                  L:          ! Length of data
: 746      1779  4
: 747      1780  4              Q = .ACM + .ACM[ACMSW_NODENAME];
: 748      1781  4              L = .Q[0];
: 749      1782  4              IF .L NEQ 0
: 750      1783  4              THEN
: 751      1784  5                  BEGIN
: 752      1785  5                      APK[ACRSW_NODENAME] = .P - .APK;
: 753      1786  5                      MOVC3(%REF(.L + 1), .Q, .P; ..., P);
: 754      1787  4                      END;
: 755      1788  3                  END;
: 756      1789  3
: 757      1790  3
: 758      1791  3      IF .ACM[ACMSW_REMOTEID] NEQ 0
: 759      1792  3      THEN
: 760      1793  4          BEGIN
: 761      1794  4              LOCAL
: 762      1795  4                  Q:          REF VECTOR[BYTE],      ! Pointer to ASCII data
: 763      1796  4                  L:          ! Length of data
: 764      1797  4
: 765      1798  4              Q = .ACM + .ACM[ACMSW_REMOTEID];
: 766      1799  4              L = .Q[0];
: 767      1800  4              IF .L NEQ 0
: 768      1801  4              THEN
: 769      1802  5                  BEGIN
: 770      1803  5                      APK[ACRSW_REMOTEID] = .P - .APK;
: 771      1804  5                      MOVC3(%REF(.L + 1), .Q, .P; ..., P);
: 772      1805  4                      END;
: 773      1806  3                  END;
: 774      1807  2      END;
: 775      1808  2
: 776      1809  2
: 777      1810  2      IF CH$RCHAR(ACM[ACM$T_TERMINAL]) NEQ 0
: 778      1811  2      THEN
: 779      1812  3          BEGIN
: 780      1813  3              APK[ACRSW_TERMINAL] = .P - .APK;
: 781      1814  3              MOVC3(%REF(CH$RCHAR(ACM[ACM$T_TERMINAL]) + 1), ACM[ACM$T_TERMINAL], .P; ..., P);
: 782      1815  2              END;
: 783      1816  2
: 784      1817  2
```



```

: 785      1818 2 IF .SJH NEQ 0
: 786      1819 2 THEN
: 787      1820 2 BEGIN
: 788      1821 2     APK[ACR$J_JOBID] = .SJH[SYMSL_ENTRY_NUMBER];
: 789      1822 2     APK[ACR$J_JOBNAME] = .P - .APK;
: 790      1823 2     MOV3(%REF(CH$RCHAR(SJH[SJH$T_NAME]) + 1), SJH[SJH$T_NAME], .P; ..., P);
: 791      1824 2     APK[ACR$J_QUEUE] = .P - .APK;
: 792      1825 2     MOV3(%REF(CH$RCHAR(SMQ[SMQ$T_NAME]) + 1), SMQ[SMQ$T_NAME], .P; ..., P);
: 793      1826 2     END;
: 794      1827 2
: 795      1828 2
: 796      1829 2     APK[ACR$J_LENGTH] = .P - .APK;
: 797      1830 2     ACR[ACR$J_LENGTH] = .P - .ACR;
: 798      1831 1 END;
```

```

                                013C 00000 IDENT_PACKET:
                                .WORD      Save R2,R3,R4,R5,R8
                                MOVZWL     2(ACR), APK
                                ADDL2      ACR, APK
                                MOVZWL     #8195, (APK)
                                MOVL       40(ACM), 4(APK)
                                MOVL       48(ACM), 8(APK)
                                MOVL       12(ACM), 12(APK)
                                MOVQ       4(ACM), 16(APK)
                                MOVZBW     36(ACM), 24(APK)
                                CLRL       28(APK)
                                CLRQ       32(APK)
                                CLRL       40(APK)
                                CLRW       44(APK)
                                MOVAB      46(R8), P
                                SUBW3      APK, P, 26(APK)
                                LOCC        #32, #12, 16(ACM)
                                SUBL3      R0, #12, R0
                                MOVB       R0, (P)+
                                MOV3       R0, 16(ACM), (P)
                                SKPC       #0, #8, 28(ACM)
                                BEQL       3$
                                CMPB       -1(R0)[R1], #32
                                BNEQ       2$
                                SOBGTR     R0, 1$
                                SUBW3      APK, P, 28(APK)
                                MOVB       R0, (P)+
                                MOV3       R0, (R1), (P)
                                EXTZV      #1, #7, (ACR), R0
                                ASHL       R0, #2030043136, R0
                                BGEQ       6$
                                TSTW       116(ACM)
                                BEQL       4$
                                MOVZWL     116(ACM), Q
                                ADDL2      ACM, Q
                                MOVZBL     (Q), L
                                BEQL       4$
                                SUBW3      APK, P, 42(APK)

50      1A      A8      53      02      A7      3C      00002      MOVZWL     2(ACR), APK
      10      A6      0C      57      C0      00006      ADDL2      ACR, APK
      50      50      0C      8F      3C      00009      MOVZWL     #8195, (APK)
      63      10      A6      28      A6      D0      0000E      MOVL       40(ACM), 4(APK)
      A6      08      30      A6      D0      00013      MOVL       48(ACM), 8(APK)
      0C      0C      A6      0C      A6      D0      00018      MOVL       12(ACM), 12(APK)
      10      A8      04      A6      7D      0001D      MOVQ       4(ACM), 16(APK)
      18      A8      24      A6      9B      00022      MOVZBW     36(ACM), 24(APK)
      1C      A8      D4      00027      CLRL       28(APK)
      20      A8      7C      0002A      CLRQ       32(APK)
      28      A8      D4      0002D      CLRL       40(APK)
      2C      A8      B4      00030      CLRW       44(APK)
      2E      A8      9E      00033      MOVAB      46(R8), P
      53      58      A3      00037      SUBW3      APK, P, 26(APK)
      1A      A8      53      20      3A      0003C      LOCC        #32, #12, 16(ACM)
      10      A6      0C      50      C3      00041      SUBL3      R0, #12, R0
      50      50      90      00045      MOVB       R0, (P)+
      63      10      A6      50      28      00048      MOV3       R0, 16(ACM), (P)
      A6      0C      08      00      3B      0004D      SKPC       #0, #8, 28(ACM)
      1C      16      13      00052      BEQL       3$
      20      FF      A041  91      00054  1$:      CMPB       -1(R0)[R1], #32
      F6      03      12      00059      BNEQ       2$
      1C      A8      53      50      F5      0005B      SOBGTR     R0, 1$
      53      58      A3      0005E  2$:      SUBW3      APK, P, 28(APK)
      83      50      90      00063      MOVB       R0, (P)+
      61      50      28      00066      MOV3       R0, (R1), (P)
      67      01      EF      0006A  3$:      EXTZV      #1, #7, (ACR), R0
      50      78      0006F      ASHL       R0, #2030043136, R0
      54      18      00077      BGEQ       6$
      74      A6      B5      00079      TSTW       116(ACM)
      17      13      0007C      BEQL       4$
      51      74      A6      3C      0007E      MOVZWL     116(ACM), Q
      51      56      C0      00082      ADDL2      ACM, Q
      50      61      9A      00085      MOVZBL     (Q), L
      2A      A8      53      0B      13      00088      BEQL       4$
      58      A3      0008A      SUBW3      APK, P, 42(APK)
```


				50	D6	0008F	INCL	R0		1768
	63		61	50	28	00091	MOVCL	R0, (Q), (P)		
				76	A6	B5 00095 4\$:	TSTW	118(ACM)		1773
				17	13	00098	BEQL	5\$		
			51	76	A6	3C 0009A	MOVZWL	118(ACM), Q		1780
			51		56	C0 0009E	ADDL2	ACM, Q		
			50		61	9A 000A1	MOVZBL	(Q), L		1781
					0B	13 000A4	BEQL	5\$		1782
1E	A8		53		58	A3 000A6	SUBW3	APK, P, 30(APK)		1785
					50	D6 000AB	INCL	R0		1786
	63		61		50	28 000AD	MOVCL	R0, (Q), (P)		
				78	A6	B5 000B1 5\$:	TSTW	120(ACM)		1791
				17	13	000B4	BEQL	6\$		
			51	78	A6	3C 000B6	MOVZWL	120(ACM), Q		1798
			51		56	C0 000BA	ADDL2	ACM, Q		
			50		61	9A 000BD	MOVZBL	(Q), L		1799
					0B	13 000C0	BEQL	6\$		1800
2C	A8		53		58	A3 000C2	SUBW3	APK, P, 44(APK)		1803
					50	D6 000C7	INCL	R0		1804
	63		61		50	28 000C9	MOVCL	R0, (Q), (P)		
				34	A6	95 000CD 6\$:	TSTB	52(ACM)		1810
				10	13	000D0	BEQL	7\$		
20	A8		53		58	A3 000D2	SUBW3	APK, P, 32(APK)		1813
			50	34	A6	9A 000D7	MOVZBL	52(ACM), R0		1814
					50	D6 000DB	INCL	R0		
	63	34	A6		50	28 000DD	MOVCL	R0, 52(ACM), (P)		
					59	D5 000E2 7\$:	TSTL	SJH		1818
				29	13	000E4	BEQL	8\$		
		24	A8	08	A9	D0 000E6	MOVL	8(SJH), 36(APK)		1821
22	A8		53		58	A3 000EB	SUBW3	APK, P, 34(APK)		1822
			50	0108	C9	9A 000F0	MOVZBL	264(SJH), R0		1823
					50	D6 000F5	INCL	R0		
	63	0108	C9		50	28 000F7	MOVCL	R0, 264(SJH), (P)		
28	A8		53		58	A3 000FD	SUBW3	APK, P, 40(APK)		1824
			50	00B0	CB	9A 00102	MOVZBL	176(SMQ), R0		1825
					50	D6 00107	INCL	R0		
	63	00B0	CB		50	28 00109	MOVCL	R0, 176(SMQ), (P)		
02	A8		53		58	A3 0010F 8\$:	SUBW3	APK, P, 2(APK)		1829
02	A7		53		57	A3 00114	SUBW3	ACR, P, 2(ACR)		1830
					04	00119	RET			1831

; Routine Size: 282 bytes, Routine Base: CODE + 0310


```

: 800 1832 1 ROUTINE RESOURCE_PACKET: L_RESOURCE_PACKET NOVALUE=
: 801 1833 1
: 802 1834 1 ++
: 803 1835 1
: 804 1836 1 FUNCTIONAL DESCRIPTION:
: 805 1837 1 This routine builds the resource usage packet.
: 806 1838 1
: 807 1839 1 INPUT PARAMETERS:
: 808 1840 1 NONE
: 809 1841 1
: 810 1842 1 IMPLICIT INPUTS:
: 811 1843 1 ACM - Pointer to mailbox message.
: 812 1844 1 ACR - Pointer to accounting record buffer.
: 813 1845 1
: 814 1846 1 OUTPUT PARAMETERS:
: 815 1847 1 NONE
: 816 1848 1
: 817 1849 1 IMPLICIT OUTPUTS:
: 818 1850 1 Resource packet built in record buffer.
: 819 1851 1
: 820 1852 1 ROUTINE VALUE:
: 821 1853 1 NONE
: 822 1854 1
: 823 1855 1 SIDE EFFECTS:
: 824 1856 1 NONE
: 825 1857 1
: 826 1858 1 --
: 827 1859 1
: 828 1860 2 BEGIN
: 829 1861 2 EXTERNAL REGISTER
: 830 1862 2 ACM = ACCT_ACM_REG: REF BBLOCK, ! Pointer to mailbox message
: 831 1863 2 ACR = ACCT_ACR_REG: REF BBLOCK; ! Pointer to record buffer
: 832 1864 2 LOCAL
: 833 1865 2 APK: REF BBLOCK; ! Pointer to packet
: 834 1866 2 REGISTER
: 835 1867 2 P = 3; ! Pointer to free byte
: 836 1868 2
: 837 1869 2
: 838 1870 2 ACM_PACKET(ACR$K_RESOURCE, 0, .ACR, APK);
: 839 1871 2 MOV3(
: 840 1872 2 %REF($BYTEOFFSET(ACM$K_VOLUMES) + 4 - $BYTEOFFSET(ACM$Q_LOGIN)),
: 841 1873 2 ACM[ACM$Q_LOGIN],
: 842 1874 2 APK[ACR$Q_LOGIN]; ... P);
: 843 1875 2 APK[ACR$W_LENGTH] = .P - .APK;
: 844 1876 2 ACR[ACR$W_LENGTH] = .P - .ACR;
: 845 1877 1 END;
```

013C 00000 RESOURCE_PACKET:

		58	02	A7	3C	00002	WORD	Save R2,R3,R4,R5,R8	
		58		57	C0	00006	MOVZWL	2(ACR), APK	: 1832
		68	2005	8F	3C	00009	ADDL2	ACR, APK	: 1870
04	A8	44	A6	30	28	0000E	MOVZWL	#8197, (APK)	: 1874
							MOV3	#48, 68(ACM), 4(APK)	

Accounting manager

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02 A8
02 A7

53
53

58	A3	00014
57	A3	00019
	04	0001E

SUBW3 APK, P, 2 (APK)
SUBW3 ACR, P, 2 (ACR)
RET

: 1875
: 1876
: 1877

; Routine Size: 31 bytes, Routine Base: CODE + 042A


```
: 847 1878 1 GLOBAL ROUTINE WRITE_USER_ACCOUNTING_RECORD(PACM,PSJH,PSMQ,LENGTH,ADDRESS): NOVALUE=
: 848 1879 1
: 849 1880 1 !++
: 850 1881 1
: 851 1882 1 FUNCTIONAL DESCRIPTION:
: 852 1883 1 This routine builds the user data record.
: 853 1884 1
: 854 1885 1 INPUT PARAMETERS:
: 855 1886 1 PACM - Pointer to mailbox message.
: 856 1887 1 PSJH - Pointer to SJH or 0.
: 857 1888 1 PSMQ - Pointer to SMQ or 0.
: 858 1889 1 LENGTH - Descriptor for user data.
: 859 1890 1 ADDRESS -
: 860 1891 1
: 861 1892 1 IMPLICIT INPUTS:
: 862 1893 1 NONE
: 863 1894 1
: 864 1895 1 OUTPUT PARAMETERS:
: 865 1896 1 NONE
: 866 1897 1
: 867 1898 1 IMPLICIT OUTPUTS:
: 868 1899 1 NONE
: 869 1900 1
: 870 1901 1 ROUTINE VALUE:
: 871 1902 1 NONE
: 872 1903 1
: 873 1904 1 SIDE EFFECTS:
: 874 1905 1 NONE
: 875 1906 1
: 876 1907 1 !--
: 877 1908 1
: 878 1909 2 BEGIN
: 879 1910 2 LOCAL
: 880 1911 2 ACR_BUFFER: BBLOCK[JBC$K_MAXACCREC], ! Record buffer
: 881 1912 2 APK: REF BBLOCK; ! Pointer to packet
: 882 1913 2 REGISTER
: 883 1914 2 P = 3; ! Pointer to free byte
: 884 1915 2 GLOBAL REGISTER
: 885 1916 2 ACM = ACCT_ACM_REG: REF BBLOCK, ! Pointer to mailbox message
: 886 1917 2 ACR = ACCT_ACR_REG: REF BBLOCK, ! Pointer to record buffer
: 887 1918 2 SJH = ACCT_SJH_REG: REF BBLOCK, ! Pointer to SJH or 0
: 888 1919 2 SMQ = ACCT_SMQ_REG: REF BBLOCK; ! Pointer to SMQ or 0
: 889 1920 2
: 890 1921 2
: 891 1922 2 ACM = .PACM;
: 892 1923 2 ACR = ACR_BUFFER;
: 893 1924 2 SJH = .PSJH;
: 894 1925 2 SMQ = .PSMQ;
: 895 1926 2 ACM_RECORD(ACR$K_USER, 0, CUR_TIME, .ACR);
: 896 1927 2 IDENT_PACKET();
: 897 1928 2 ACM_PACKET(ACR$K_USER_DATA, 0, .ACR, APK);
: 898 1929 2 CH$QCHAR(.LENGTH, APK[ACR$K_USER_DATA]);
: 899 1930 2 MOV$3(LENGTH, .ADDRESS, APK[ACR$K_USER_DATA]+1; ..., P);
: 900 1931 2 APK[ACR$K_LENGTH] = .P - .APK;
: 901 1932 2 ACR[ACR$K_LENGTH] = .P - .ACR;
: 902 1933 2 WRITE_ACCOUNTING_FILE();
: 903 1934 1 END;
```


				0AFC 00000				
			5E	FC00	CE	9E	00002	.ENTRY WRITE_USER_ACCOUNTING_RECORD, Save R2,R3,- : 1878
			56	04	AC	D0	00007	R4,R5,R6,R7,R9,R11 : 1878
			57		6E	9E	0000B	-1024(SP), SP : 1922
			59	08	AC	D0	0000E	MOVAB ACR_BUFFER, ACR : 1923
			5B	0C	AC	D0	00012	MOVL PSJR, SJH : 1924
			67	000C2012	8F	D0	00016	MOVL PSMQ, SMQ : 1925
		04	A7	00000000	EF	7D	0001D	MOVL #794642, (ACR) : 1926
		FE9D	CF		00	FB	00025	MOVQ CUR_TIME, 4(ACR) : 1927
			56	02	A7	3C	0002A	CALLS #0, IDENT_PACKET : 1928
			56		57	C0	0002E	MOVZWL 2(ACR), APK : 1928
			66	200B	8F	3C	00031	ADDL2 ACR, APK : 1929
		04	A6	10	AC	90	00036	MOVZWL #8203, (APK) : 1929
05	A6	14	BC	10	AC	28	0003B	MOV LENGTH, 4(APK) : 1930
02	A6		53		56	A3	00042	MOV LENGTH, @ADDRESS, 5(APK) : 1931
02	A7		53		57	A3	00047	SUBW3 APK, P, 2(APK) : 1932
		FB66	CF		00	FB	0004C	SUBW3 ACR, P, 2(ACR) : 1933
					04	00051		CALLS #0, WRITE_ACCOUNTING_FILE : 1934
								RET : 1934

; Routine Size: 82 bytes, Routine Base: CODE + 0449


```
905 1935 1 ROUTINE WRITE_FILE_LINK_RECORD(TYPE,FAB): NOVALUE=
906 1936 1
907 1937 1 !++
908 1938 1
909 1939 1 FUNCTIONAL DESCRIPTION:
910 1940 1 This routine builds the accounting file forward and back link records.
911 1941 1
912 1942 1 INPUT PARAMETERS:
913 1943 1 TYPE - Record type (ACR$K_FILE_FL, ACR$K_FILE_BL).
914 1944 1 FAB - Pointer to FAB from which to obtain filespec.
915 1945 1
916 1946 1 IMPLICIT INPUTS:
917 1947 1 NONE
918 1948 1
919 1949 1 OUTPUT PARAMETERS:
920 1950 1 NONE
921 1951 1
922 1952 1 IMPLICIT OUTPUTS:
923 1953 1 NONE
924 1954 1
925 1955 1 ROUTINE VALUE:
926 1956 1 NONE
927 1957 1
928 1958 1 SIDE EFFECTS:
929 1959 1 Accounting record written.
930 1960 1
931 1961 1 !--
932 1962 1
933 1963 2 BEGIN
934 1964 2 MAP
935 1965 2 FAB: REF BBLOCK; ! Pointer to FAB
936 1966 2 LOCAL
937 1967 2 ACR_BUFFER: BBLOCK[JBC$K_MAXACCREC], ! Record buffer
938 1968 2 APK: REF BBLOCK, ! Pointer to packet
939 1969 2 NAM: REF BBLOCK, ! Pointer to NAM block
940 1970 2 L: ! Length of filename
941 1971 2 REGISTER
942 1972 2 P = 3; ! Pointer to free byte
943 1973 2 GLOBAL REGISTER
944 1974 2 ACR = ACCT_ACR_REG: REF BBLOCK; ! Pointer to record buffer
945 1975 2
946 1976 2
947 1977 2 ACR = ACR_BUFFER;
948 1978 2 ACM_RECORD(.TYPE, 0, CUR TIME, .ACR);
949 1979 2 ACM_PACKET(ACR$K_FILENAME, 0, .ACR, APK);
950 1980 2 P = APK[ACR$K_FILENAME];
951 1981 2 NAM = .FAB[FAB$K_NAM];
952 1982 2 L = .NAM[NAM$K_RSL];
953 1983 2 (.P)<0,8> = .L;
954 1984 2 P = .P + 1;
955 1985 2 MOV3(L, .NAM[NAM$K_RSA], .P; ... P);
956 1986 2 APK[ACR$K_LENGTH] = .P - .APK;
957 1987 2 ACR[ACR$K_LENGTH] = .P - .ACR;
958 1988 2 WRITE_ACCOUNTING_FILE();
959 1989 1 END;
```


00FC 0000 WRITE_FILE_LINK_RECORD:

[illegible]

; Routine Size: 83 bytes, Routine Base: CODE + 049B


```
: 961 1990 1 GLOBAL ROUTINE WRITE_ACCOUNTING_RECORD(SJH,SMQ,ACM,STS): NOVALUE=
: 962 1991 1
: 963 1992 1 !++
: 964 1993 1
: 965 1994 1 FUNCTIONAL DESCRIPTION:
: 966 1995 1 This routine builds and writes an accounting record for a process, a
: 967 1996 1 completed batch or symbiont job, or an incomplete job.
: 968 1997 1
: 969 1998 1 INPUT PARAMETERS:
: 970 1999 1 NONE
: 971 2000 1
: 972 2001 1 IMPLICIT INPUTS:
: 973 2002 1 SJH - Pointer to SJH or 0.
: 974 2003 1 SMQ - Pointer to SMQ or 0.
: 975 2004 1 ACM - Pointer to ACM or 0.
: 976 2005 1 STS - (Optional) Forced completion status.
: 977 2006 1
: 978 2007 1 OUTPUT PARAMETERS:
: 979 2008 1 NONE
: 980 2009 1
: 981 2010 1 IMPLICIT OUTPUTS:
: 982 2011 1 NONE
: 983 2012 1
: 984 2013 1 ROUTINE VALUE:
: 985 2014 1 NONE
: 986 2015 1
: 987 2016 1 SIDE EFFECTS:
: 988 2017 1 Accounting record written.
: 989 2018 1
: 990 2019 1 !--
: 991 2020 1
: 992 2021 2 BEGIN
: 993 2022 2 MAP
: 994 2023 2 SJH: REF BBLOCK, ! Pointer to SJH
: 995 2024 2 SMQ: REF BBLOCK; ! Pointer to SMQ
: 996 2025 2 LOCAL
: 997 2026 2 LACM: BBLOCK[$BYTEOFFSET(ACM$W_IMAGENAME)+2]; ! Fake message
: 998 2027 2 BUILTIN
: 999 2028 2 ACTUALCOUNT;
1000 2029 2
1001 2030 2
1002 2031 2 IF .SMQ EQL 0
1003 2032 2 THEN
1004 2033 2 WRITE_PROCESS_RECORD(0, 0, .ACM)
1005 2034 2 ELSE
1006 2035 2 IF .SMQ[SMQ$V_BATCH]
1007 2036 2 THEN
1008 2037 2 IF .ACM NEQ 0
1009 2038 2 THEN
1010 2039 2 WRITE_PROCESS_RECORD(.SJH, .SMQ, .ACM)
1011 2040 2 ELSE
1012 2041 2 BEGIN
1013 2042 2 CH$FILL(0, %ALLOCATION(LACM), LACM);
1014 2043 2 LACM[ACM$W_TYPE] = MSG$ DELPROC;
1015 2044 2 LACM[ACM$L_UIC] = .SJH[SJH$L_UIC];
1016 2045 2 CH$MOVE(SJH$S_USERNAME, SJH[SJH$T_USERNAME], LACM[ACM$T_USERNAME]);
: 1017 2046 2 CH$MOVE(SJH$S_ACCOUNT, SJH[SJH$T_ACCOUNT], LACM[ACM$T_ACCOUNT]);
```



```
1018 2047 3 BITVECTOR[LACM[ACMSL_STS], $BITPOSITION(PCBSV_BATCH)] = TRUE;
1019 2048 3 COPY_TIME(CUR_TIME, LACM[ACMSQ_LOGIN]);
1020 2049 3 IF ACTUALCOUNT() GTRU 3
1021 2050 3 THEN
1022 2051 4 BEGIN
1023 2052 4 LACM[ACMSL_FINALSTS] = .STS;
1024 2053 4 SJH[SJHSL_CONDITION_1] = .STS;
1025 2054 4 SJH[SJHSL_CONDITION_2] = 0;
1026 2055 4 SJH[SJHSL_CONDITION_3] = 0;
1027 2056 3 END;
1028 2057 3 WRITE_PROCESS_RECORD(.SJH, .SMQ, LACM);
1029 2058 3 END
1030 2059 2 ELSE
1031 2060 3 BEGIN
1032 2061 3 IF ACTUALCOUNT() GTRU 3
1033 2062 3 THEN
1034 2063 4 BEGIN
1035 2064 4 SJH[SJHSL_CONDITION_1] = .STS;
1036 2065 4 SJH[SJHSL_CONDITION_2] = 0;
1037 2066 4 SJH[SJHSL_CONDITION_3] = 0;
1038 2067 3 END;
1039 2068 3 IF .(SMQ[SMQSQ_ACM_BEGTIM]) EQL 0
1040 2069 3 THEN
1041 2070 3 COPY_TIME(CUR_TIME, SMQ[SMQSQ_ACM_BEGTIM]);
1042 2071 3 WRITE_PRINT_RECORD(.SJH, .SMQ);
1043 2072 2 END;
1044 2073 1 END;
```

				01FC 00000	.ENTRY	WRITE_ACCOUNTING_RECORD, Save R2,R3,R4,R5,-	1990
			58	00000000'	EF 9E 00002	MOVAB R6,R7,R8	
			5E	84	AE 9E 00009	MOVAB -124(SP), SP	
			57	08	AC D0 0000D	MOVL SMQ, R7	2031
				0C	07 12 00011	BNEQ 1\$	
					AC DD 00013	PUSHL ACM	2033
					7E 7C 00016	CLRQ -(SP)	
					52 11 00018	BRB 5\$	
			56	04	AC D0 0001A	MOVL SJH, R6	2039
			50	0C	A7 E9 0001E	BLBC 12(R7), 6\$	2035
				0C	AC D5 00022	TSTL ACM	2037
					05 13 00025	BEQL 2\$	
				0C	AC DD 00027	PUSHL ACM	2039
					3D 11 0002A	BRB 4\$	
007C	8F		6E		00 2C 0002C	MOVCS #0, (SP), #0, #124, LACM	2042
					6E 00033		
			6E		03 B0 00034	MOVW #3, LACM	2043
			0C	AE	C6 D0 00037	MOVL 324(R6), LACM+12	2044
	10	AE	0148	C6	0C 28 0003D	MOVCS #12, 328(R6), LACM+16	2045
	1C	AE	14	A6	08 28 00044	MOVCS #8, 20(R6), LACM+28	2046
			2D	AE	8F 88 0004A	BISB2 #64, LACM+45	2047
			44	AE	68 7D 0004F	MOVQ CUR_TIME, LACM+68	2048
				03	6C 91 00053	CMPB (APT, #3	2049
					0F 1B 00056	BLEQU 3\$	

ACCOUNTING
V04-000

Accounting manager

M 2
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4C	AE	10	AC	D0	00058	MOVL	STS, LACM+76	:	2052
00DC	C6	10	AC	D0	0005D	MOVL	STS, 220(R6)	:	2053
		00E0	C6	7C	00063	CLRQ	224(R6)	:	2054
			5E	DD	00067	PUSHL	SP	:	2057
	7E		56	7D	00069	MOVQ	R6, -(SP)	:	
0000V	CF		03	FB	0006C	CALLS	#3, WRITE_PROCESS_RECORD	:	
				04	00071	RET		:	2037
	03		6C	91	00072	CMPB	(AP), #3	:	2061
			0E	1B	00075	BLEQU	7\$:	
	50	04	AC	D0	00077	MOVL	SJH, R0	:	2064
00DC	C0	10	AC	D0	0007B	MOVL	STS, 220(R0)	:	
		00E0	C0	7C	00081	CLRQ	224(R0)	:	2065
		14	A7	D5	00085	TSTL	20(R7)	:	2068
			04	12	00088	BNEQ	8\$:	
14	A7		68	7D	0008A	MOVQ	CUR_TIME, 20(R7)	:	2070
	7E		56	7D	0008E	MOVQ	R6, -(SP)	:	2071
0000V	CF		02	FB	00091	CALLS	#2, WRITE_PRINT_RECORD	:	
			04	00096	RET			:	2073

; Routine Size: 151 bytes, Routine Base: CODE + 04EE

**F


```
1046 2074 1 ROUTINE WRITE_PRINT_RECORD(PSJH,PSMQ): NOVALUE=
1047 2075 1
1048 2076 1 ++
1049 2077 1
1050 2078 1 FUNCTIONAL DESCRIPTION:
1051 2079 1 This routine builds the print accounting record.
1052 2080 1
1053 2081 1 INPUT PARAMETERS:
1054 2082 1 NONE
1055 2083 1
1056 2084 1 IMPLICIT INPUTS:
1057 2085 1 PSJH - Pointer to SJH.
1058 2086 1 PSMQ - Pointer to SMQ.
1059 2087 1
1060 2088 1 OUTPUT PARAMETERS:
1061 2089 1 NONE
1062 2090 1
1063 2091 1 IMPLICIT OUTPUTS:
1064 2092 1 NONE
1065 2093 1
1066 2094 1 ROUTINE VALUE:
1067 2095 1 NONE
1068 2096 1
1069 2097 1 SIDE EFFECTS:
1070 2098 1 Print accounting record written.
1071 2099 1
1072 2100 1 --
1073 2101 1
1074 2102 2 BEGIN
1075 2103 2 LOCAL
1076 2104 2 ACM_BUFFER: BBLOCK[$BYTEOFFSET(ACM$W_USERREQ)], ! Fake message
1077 2105 2 ACR_BUFFER: BBLOCK[JBC$K_MAXACCREC], ! Record buffer
1078 2106 2 APK: REF BBLOCK; ! Pointer to packet
1079 2107 2 GLOBAL REGISTER
1080 2108 2 ACM = ACCT_ACM_REG: REF BBLOCK, ! Pointer to accounting message
1081 2109 2 ACR = ACCT_ACR_REG: REF BBLOCK, ! Pointer to record buffer
1082 2110 2 SJH = ACCT_SJH_REG: REF BBLOCK, ! Pointer to SJH
1083 2111 2 SMQ = ACCT_SMQ_REG: REF BBLOCK; ! Pointer to SMQ
1084 2112 2
1085 2113 2
1086 2114 2 ACM = ACM_BUFFER;
1087 2115 2 SJH = .PSJH;
1088 2116 2 SMQ = .PSMQ;
1089 2117 2 CH$FILL(0, %ALLOCATION(ACM_BUFFER), .ACM);
1090 2118 2 ACM[ACM$S_PID] = .SJH[SJH$S_PID];
1091 2119 2 ACM[ACM$S_UIC] = .SJH[SJH$S_UIC];
1092 2120 2 ACM[ACM$S_PROCPRI] = .SJH[SJH$S_PRIORITY];
1093 2121 2 CH$MOVE(ACM$S_USERNAME, SJH[SJH$S_USERNAME], ACM[ACM$S_USERNAME]);
1094 2122 2 CH$MOVE(ACM$S_ACCOUNT, SJH[SJH$S_ACCOUNT], ACM[ACM$S_ACCOUNT]);
1095 2123 2
1096 2124 2
1097 2125 2 ACR = ACR_BUFFER;
1098 2126 2 ACM_RECORD(ACR$K_PRINT, 0, CUR_TIME, .ACR);
1099 2127 2 IDENT_PACKET();
1100 2128 2 ACM_PACKET(ACR$K_PRINT, 0, .ACR, APK);
1101 2129 2 APK[ACR$S_PRINTSTS] = .SJH[SJH$S_CONDITION 1];
1102 2130 2 COPY_TIME(SJH[SJH$S_Q_TIME], APK[ACR$S_Q_ETIME]);
```



```

1103 2131 2 COPY TIME(SMQ[SMQ$Q_ACM-BEGIN], APK[ACR$Q-BEGIN]);
1104 2132 2 APK[ACR$L-SYMCPUTIM] = .SMQ[SMQ$L_ACM_SYMCPUTIM];
1105 2133 2 APK[ACR$L-PAGECNT] = .SMQ[SMQ$L_ACM_PAGECNT];
1106 2134 2 APK[ACR$L-QIOCNT] = .SMQ[SMQ$L_ACM-QIOCNT];
1107 2135 2 APK[ACR$L-GETCNT] = .SMQ[SMQ$L_ACM-GETCNT];
1108 2136 2 APK[ACR$W-LENGTH] = $BYTEOFFSET(ACR$L-GETCNT) + 4;
1109 2137 2 ACR[ACR$W-LENGTH] = .APK + $BYTEOFFSET(ACR$L-GETCNT) + 4 - .ACR;
1110 2138 2 WRITE_ACCOUNTING_FILE();
1111 2139 2
1112 2140 2
1113 2141 2 CLEAR TIME(SMQ[SMQ$Q_ACM-BEGIN]);
1114 2142 2 SMQ[SMQ$L_ACM_SYMCPUTIM] = 0;
1115 2143 2 SMQ[SMQ$L_ACM_PAGECNT] = 0;
1116 2144 2 SMQ[SMQ$L_ACM-QIOCNT] = 0;
1117 2145 2 SMQ[SMQ$L_ACM-GETCNT] = 0;
1118 2146 1 END;

```

0AFC 00000 WRITE_PRINT_RECORD:

0044 8F 00				5E FBBC CE 9E 00002	WORD	Save R2,R3,R4,R5,R6,R7,R9,R11	2074
			56 BC AD 9E 00007	MOVAB	-1092(SP), SP	2114	
			59 04 AC D0 0000B	MOVAB	ACM BUFFER, ACM	2115	
			5B 08 AC D0 0000F	MOVL	PSJH, SJH	2116	
			6E 00 2C 00013	MOVL	PSMQ, SMQ	2117	
			66 0001A	MOVAB	#0, (SP), #0, #68, (ACM)	2118	
	28	A6	0130 C9 D0 0001B	MOVL	304(SJH), 40(ACM)	2119	
	0C	A6	0144 C9 D0 00021	MOVL	324(SJH), 12(ACM)	2120	
	24	A6	017D C9 90 00027	MOVB	381(SJH), 36(ACM)	2121	
10	A6	0148	C9 0C 28 0002D	MOVAB	#12, 328(SJH), 16(ACM)	2122	
1C	A6	14	A9 08 28 00034	MOVAB	#8, 20(SJH), 28(ACM)	2125	
			57 6E 9E 0003A	MOVAB	ACR BUFFER, ACR	2126	
			67 000C2010 8F D0 0003D	MOVL	#794640, (ACR)	2127	
	04	A7	000000000 EF 7D 00044	MOVQ	CUR TIME, 4(ACR)	2128	
	FD3A	CF	00 FB 0004C	CALLS	#0, IDENT PACKET	2129	
			50 02 A7 3C 00051	MOVZWL	2(ACR), APK	2130	
			50 57 C0 00055	ADDL2	ACR, APK	2131	
			60 2011 8F 3C 00058	MOVZWL	#8209, (APK)	2132	
	04	A0	00DC C9 D0 0005D	MOVL	220(SJH), 4(APK)	2133	
	08	A0	013C C9 7D 00063	MOVQ	316(SJH), 8(APK)	2135	
	10	A0	14 AB 7D 00069	MOVQ	20(SMQ), 16(APK)	2136	
	18	A0	28 AB D0 0006E	MOVL	40(SMQ), 24(APK)	2137	
	1C	A0	20 AB 7D 00073	MOVQ	32(SMQ), 28(APK)	2138	
	24	A0	1C AB D0 00078	MOVL	28(SMQ), 36(APK)	2139	
	02	A0	28 B0 0007D	MOVW	#40, 2(APK)	2140	
			50 57 C2 00081	SUBL2	ACR, R0	2141	
02	A7	50	28 A1 00084	ADDW3	#40, R0, 2(ACR)	2142	
			50 00 FB 00089	CALLS	#0, WRITE_ACCOUNTING_FILE	2143	
	F9ED	CF	14 AB 7C 0008E	CLRQ	20(SMQ)	2144	
			1C AB 7C 00091	CLRQ	28(SMQ)	2145	
			24 AB 7C 00094	CLRQ	36(SMQ)	2146	
			04 00097	RET			

; Routine Size: 152 bytes, Routine Base: CODE + 0585

ACCOUNTNG
V04-000

Accounting manager

C 3
15-Sep-1984 23:46:25
14-Sep-1984 12:36:55

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[JOBCTL.SRC]ACCOUNTNG.B32;1

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AS
VO


```
: 1120 2147 1 ROUTINE WRITE_PROCESS_RECORD(PSJH,PSMQ,PACM): NOVALUE=
: 1121 2148 1
: 1122 2149 1 !++
: 1123 2150 1
: 1124 2151 1 FUNCTIONAL DESCRIPTION:
: 1125 2152 1 This routine builds process deletion, process purge, image deletion,
: 1126 2153 1 image purge, login failure, and system initialization records.
: 1127 2154 1
: 1128 2155 1 INPUT PARAMETERS:
: 1129 2156 1 NONE
: 1130 2157 1
: 1131 2158 1 IMPLICIT INPUTS:
: 1132 2159 1 PSJH - Pointer to SJH or 0.
: 1133 2160 1 PSMQ - Pointer to SMQ or 0.
: 1134 2161 1 PACM - Pointer to mailbox message.
: 1135 2162 1
: 1136 2163 1 OUTPUT PARAMETERS:
: 1137 2164 1 NONE
: 1138 2165 1
: 1139 2166 1 IMPLICIT OUTPUTS:
: 1140 2167 1 NONE
: 1141 2168 1
: 1142 2169 1 ROUTINE VALUE:
: 1143 2170 1 NONE
: 1144 2171 1
: 1145 2172 1 SIDE EFFECTS:
: 1146 2173 1 NONE
: 1147 2174 1
: 1148 2175 1 !--
: 1149 2176 1
: 1150 2177 2 BEGIN
: 1151 2178 2 LOCAL
: 1152 2179 2 ACR_BUFFER: BBLOCK[EJBC$K_MAXACCREC], ! Record buffer
: 1153 2180 2 TYPE, ! Record type
: 1154 2181 2 SUBTYPE; ! Record subtype
: 1155 2182 2 GLOBAL REGISTER
: 1156 2183 2 ACM = ACCT_ACM_REG: REF BBLOCK, ! Pointer to mailbox message
: 1157 2184 2 ACR = ACCT_ACR_REG: REF BBLOCK, ! Pointer to record buffer
: 1158 2185 2 SJH = ACCT_SJH_REG: REF BBLOCK, ! Pointer to SJH or 0
: 1159 2186 2 SMQ = ACCT_SMQ_REG: REF BBLOCK; ! Pointer to SMQ or 0
: 1160 2187 2
: 1161 2188 2
: 1162 2189 2 ACM = .PACM;
: 1163 2190 2 ACR = ACR_BUFFER;
: 1164 2191 2 SJH = .PSJH;
: 1165 2192 2 SMQ = .PSMQ;
: 1166 2193 2 IF .SJH NEQ 0 THEN ACM[ACM$SL_FINALSTS] = .SJH[SJH$SL_CONDITION_1];
: 1167 2194 2 SUBTYPE = 0;
: 1168 2195 2 IF
: 1169 2196 3 BEGIN
: 1170 2197 3 CASE .ACM[ACM$W_TYPE] FROM MSG$_DELPROC TO MSG$_PURIMAG OF
: 1171 2198 3 SET
: 1172 2199 3
: 1173 2200 3 [INRANGE, OUTRANGE]:
: 1174 2201 3 RETURN;
: 1175 2202 3
: 1176 2203 3 !+
```



```
1177 2204 3 | DELPROC messages generate one of the following accounting records:
1178 2205
1179 2206     SYSINIT   System Initialization; the STARTUP process terminated
1180 2207     LOGFAIL   Login Failure; LOGINOUT terminated with an authorization error
1181 2208     PRCDEL    Normal process termination
1182 2209
1183 2210 Account names starting with a binary null are special, reserved to
1184 2211 Digital, account names. These special account names are used to determine
1185 2212 what kind to accounting record to generate here.
1186 2213
1187 2214 The system STARTUP process starts out life with an account name of all
1188 2215 binary nulls. This is changed to a single binary null followed by
1189 2216 '<start>' when it gets set logged in by LOGINOUT. Furthermore, the
1190 2217 STARTUP process has no terminal and a username of SYSTEM. These
1191 2218 characteristics are checked and, if met, cause a SYSINIT record.
1192 2219
1193 2220 A login failure has an account name starting with a single binary
1194 2221 null followed by some descriptive keyword enclosed by <>'s. This
1195 2222 special account name is set up by LOGINOUT whenever it must terminate
1196 2223 due to an authorization failure. Account names of this special
1197 2224 form cause a LOGFAIL record. The following special account name
1198 2225 descriptive keywords are currently used:
1199 2226
1200 2227     <batch>    Batch job login failure
1201 2228     <det>      Detached process login failure
1202 2229     <login>    Interactive login failure
1203 2230     <net>      Network login failure
1204 2231
1205 2232 Otherwise, a PRCDEL record is generated.
1206 2233
1207 2234 [MSG$ DELPROC]:
1208 2235     BEGIN
1209 2236     MACRO
1210 2237         SYSINIT_ACCOUNT = %STRING(%CHAR(0), '<start>')%;
1211 2238     LOCAL
1212 2239         NON_NULLS;
1213 2240     SKPC(%REF(0), %REF(ACM$$_ACCOUNT), ACM[ACM$$_ACCOUNT]; NON_NULLS);
1214 2241     IF (.NON_NULLS EQL 0
1215 2242         OR
1216 2243         CH$EQL(
1217 2244             ACM$$_ACCOUNT, ACM[ACM$$_ACCOUNT],
1218 2245             %CHARCOUNT(SYSINIT_ACCOUNT), UPLIT BYTE(SYSINIT_ACCOUNT),
1219 2246             %C' ')
1220 2247         AND CH$RCHAR(ACM[ACM$$_TERMINAL]) EQL 0
1221 2248         AND CH$EQL(
1222 2249             ACM$$_USERNAME, ACM[ACM$$_USERNAME],
1223 2250             %CHARCOUNT('SYSTEM'), UPLIT BYTE('SYSTEM'),
1224 2251             %C' ')
1225 2252         THEN
1226 2253         BEGIN
1227 2254             ACM RECORD(ACR$$_SYSINIT, 0, CUR_TIME, .ACR);
1228 2255             IDENT PACKET();
1229 2256             RESOURCE PACKET();
1230 2257             WRITE ACCOUNTING_FILE();
1231 2258             RETURN;
1232 2259         END;
1233 2260
```



```
: 1234      2261  5      IF (.NON_NULLS EQL 0
: 1235      2262  5      AND
: 1236      2263  5      CH$RCHAR(ACM[ACM$T_TERMINAL]) NEQ 0)
: 1237      2264  4      OR .NON_NULLS EQL ACM$$ACCOUNT - 1
: 1238      2265  4      THEN
: 1239      2266  5      BEGIN
: 1240      2267  5      TYPE = ACR$K_LOGFAIL;
: 1241      2268  5      FALSE
: 1242      2269  5      END
: 1243      2270  4      ELSE
: 1244      2271  5      BEGIN
: 1245      2272  5      TYPE = ACR$K_PRCDEL;
: 1246      2273  5      TRUE
: 1247      2274  5      END
: 1248      2275  3      END;
: 1249      2276  3
: 1250      2277  3      [MSG$ PURPROC]:
: 1251      2278  4      BEGIN
: 1252      2279  4      TYPE = ACR$K_PRCPUR;
: 1253      2280  4      TRUE
: 1254      2281  3      END;
: 1255      2282  3
: 1256      2283  3      [MSG$ DELIMAG]:
: 1257      2284  4      BEGIN
: 1258      2285  4      TYPE = ACR$K_IMGDEL;
: 1259      2286  4      TRUE
: 1260      2287  3      END;
: 1261      2288  3
: 1262      2289  3      [MSG$ PURIMAG]:
: 1263      2290  4      BEGIN
: 1264      2291  4      TYPE = ACR$K_IMGPUR;
: 1265      2292  4      TRUE
: 1266      2293  3      END;
: 1267      2294  3
: 1268      2295  3      TES
: 1269      2296  3      END
: 1270      2297  2      THEN
: 1271      2298  3      BEGIN
: 1272      2299  3      IF CH$RCHAR(ACM[ACM$T_TERMINAL]) NEQ 0
: 1273      2300  3      THEN
: 1274      2301  3      SUBTYPE = ACR$K_INTERACTIVE
: 1275      2302  3
: 1276      2303  3      ELSE IF .BITVECTOR[ACM[ACM$L_STS], $BITPOSITION(PCB$V_BATCH)]
: 1277      2304  3      THEN
: 1278      2305  3      SUBTYPE = ACR$K_BATCH
: 1279      2306  3
: 1280      2307  3      ELSE IF .BITVECTOR[ACM[ACM$L_STS], $BITPOSITION(PCB$V_NETWRK)]
: 1281      2308  3      THEN
: 1282      2309  3      SUBTYPE = ACR$K_NETWORK
: 1283      2310  3
: 1284      2311  3      ELSE IF .ACM[ACM$L_OWNER] NEQ 0
: 1285      2312  3      THEN
: 1286      2313  3      SUBTYPE = ACR$K_SUBPROCESS
: 1287      2314  3
: 1288      2315  3      ELSE
: 1289      2316  3      SUBTYPE = ACR$K_DETACHED;
: 1290      2317  2      END;
```



```

1291      2318 2
1292      2319 2
1293      2320 2 ACM_RECORD(.TYPE, .SUBTYPE, CUR_TIME, .ACR);
1294      2321 2 IDENT_PACKET();
1295      2322 2 RESOURCE_PACKET();
1296      2323 2
1297      2324 2
1298      2325 3 IF ONEOF_(.TYPE, BMSK_(ACR$K_IMGPUR, ACR$K_IMGDEL))
1299      2326 3 THEN
1300      2327 3     BEGIN
1301      2328 3     LOCAL
1302      2329 3         APK:                REF BBLOCK,           ! Pointer to packet
1303      2330 3         Q:                REF VECTOR[,BYTE];      ! Pointer to image name string
1304      2331 3     REGISTER
1305      2332 3         P = 3;                ! Pointer to free byte
1306      2333 3
1307      2334 3
1308      2335 3     ACM_PACKET(ACR$K_IMAGENAME, 0, .ACR, APK);
1309      2336 3     Q = .ACM + .ACM[ACM$W_IMAGENAME];
1310      2337 3     MOV(3(%REF(.Q[0] + 1), .Q, APK[ACR$T_IMAGENAME]; ..., P);
1311      2338 3     APK[ACR$W_LENGTH] = .P - .APK;
1312      2339 3     ACR[ACR$W_LENGTH] = .P - .ACR;
1313      2340 3     END;
1314      2341 2
1315      2342 2
1316      2343 2 WRITE_ACCOUNTING_FILE();
1317      2344 1 END;

```

```

3E 74 72 61 74 73 3C 00 0061D P.AAC: .ASCII <0>\<start>\
      4D 45 54 53 59 53 00625 P.AAD: .ASCII \SYSTEM\

```

[illegible]

[illegible]

ACCOUNTING
V04-000

Accounting manager

1 3
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50 18000000

8F

52 78 000F6

ASHL TYPE, #402653184, R0

: 2325

59

02

27 18 000FE

BGEQ 19\$

: 2335

59

2007

A7 3C 00100

MOVZWL 2(ACR), APK

69

7A

57 C0 00104

ADDL2 ACR, APK

51

8F 3C 00107

MOVZWL #8199, (APK)

51

A6 3C 0010C

MOVZWL 122(ACM), Q

: 2336

50

56 C0 00110

ADDL2 ACM, Q

: 2337

04 A9

61

61 9A 00113

MOVZBL (Q), R0

02 A9

53

50 D6 00116

INCL R0

02 A7

53

50 28 00118

MOVCL R0, (Q), 4(APK)

: 2338

FCFO

53

59 A3 0011D

SUBW3 APK, P, 2(APK)

: 2339

57 A3 00122

SUBW3 ACR, P, 2(ACR)

: 2343

00 FB 00127

CALLS #0, WRITE_ACCOUNTING_FILE

: 2344

04 0012C

RET

; Routine Size: 301 bytes, Routine Base: CODE + 062B


```
: 1319 2345 1 GLOBAL ROUTINE PROCESS_ACCOUNTING: NOVALUE=
: 1320 2346 1
: 1321 2347 1 !++
: 1322 2348 1
: 1323 2349 1 FUNCTIONAL DESCRIPTION:
: 1324 2350 1 This routine processes the message types:
: 1325 2351 1 MSGS_PURPROC process purge
: 1326 2352 1 MSGS_DELMAG image deletion
: 1327 2353 1 MSGS_PURMAG image purge
: 1328 2354 1 by writing an accounting record.
: 1329 2355 1
: 1330 2356 1 INPUT PARAMETERS:
: 1331 2357 1 NONE
: 1332 2358 1
: 1333 2359 1 IMPLICIT INPUTS:
: 1334 2360 1 MBX - Pointer to buffered mailbox message.
: 1335 2361 1
: 1336 2362 1 OUTPUT PARAMETERS:
: 1337 2363 1 NONE
: 1338 2364 1
: 1339 2365 1 IMPLICIT OUTPUTS:
: 1340 2366 1 NONE
: 1341 2367 1
: 1342 2368 1 ROUTINE VALUE:
: 1343 2369 1 NONE
: 1344 2370 1
: 1345 2371 1 SIDE EFFECTS:
: 1346 2372 1 Accounting record written.
: 1347 2373 1
: 1348 2374 1 !--
: 1349 2375 1
: 1350 2376 2 BEGIN
: 1351 2377 2 LOCAL
: 1352 2378 2 SJH_N, ! Record number of SJH
: 1353 2379 2 SMQ_N; ! Record number of SMQ
: 1354 2380 2
: 1355 2381 2
: 1356 2382 2 IF
: 1357 2383 2 BEGIN
: 1358 2384 2 IF .BITVECTOR[MBX[ACMSL_STS], $BITPOSITION(PCB$V_BATCH)]
: 1359 2385 2 THEN
: 1360 2386 2 FIND_PROCESS_DATA(
: 1361 2387 2 PDE_K_BATCH, .MBX[ACMSL_PID], FALSE;
: 1362 2388 2 , SMQ_N, SJH_N)
: 1363 2389 2 ELSE
: 1364 2390 2 FALSE
: 1365 2391 2 END
: 1366 2392 2 THEN
: 1367 2393 2 BEGIN
: 1368 2394 2 LOCK_QUEUE_FILE();
: 1369 2395 2 WRITE_PROCESS_RECORD(
: 1370 2396 2 READ_RECORD(.SJH_N),
: 1371 2397 2 READ_RECORD(.SMQ_N),
: 1372 2398 2 .MBX);
: 1373 2399 2 UNLOCK_QUEUE_FILE();
: 1374 2400 2 END
: 1375 2401 2 ELSE
```


; 1376
; 13772402 2 WRITE_PROCESS_RECORD(0, 0, .MBX);
2403 1 END;

				OE0C 00000	.ENTRY	PROCESS ACCOUNTING, Save R2,R3,R9,R10,R11	: 2345
		53	00000000G	EF 9E 00002	MOVAB	READ_RECORD, R3	
		52	00000000'	EF 9E 00009	MOVAB	MBX, R2	
		50		62 D0 00010	MOVL	MBX, R0	: 2384
35	2D	A0		06 E1 00013	BBC	#6, 45(R0), 1\$	
				7E D4 00018	CLRL	-(SP)	: 2386
			28	A0 DD 0001A	PUSHL	40(R0)	: 2387
				01 DD 0001D	PUSHL	#1	: 2386
		00000000G	EF	03 FB 0001F	CALLS	#3, FIND_PROCESS_DATA	
			24	50 E9 00026	BLBC	R0, 1\$	
		00000000G	EF	00 FB 00029	CALLS	#0, LOCK_QUEUE_FILE	: 2394
				62 DD 00030	PUSHL	MBX	: 2398
				5A DD 00032	PUSHL	SMQ_N	: 2397
		63		01 FB 00034	CALLS	#1, READ_RECORD	
				50 DD 00037	PUSHL	R0	
				5B DD 00039	PUSHL	SJH_N	: 2396
		63		01 FB 0003B	CALLS	#1, READ_RECORD	
				50 DD 0003E	PUSHL	R0	
		FE8E	CF	03 FB 00040	CALLS	#3, WRITE_PROCESS_RECORD	
		00000000G	EF	00 FB 00045	CALLS	#0, UNLOCK_QUEUE_FILE	: 2399
				04 0004C	RET		: 2382
				62 DD 0004D 1\$:	PUSHL	MBX	: 2402
				7E 7C 0004F	CLRL	-(SP)	
		FE7D	CF	03 FB 00051	CALLS	#3, WRITE_PROCESS_RECORD	
				04 00056	RET		: 2403

; Routine Size: 87 bytes, Routine Base: CODE + 0758

ACCOUNTNG
V04-000

Accounting manager

L 3
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: 1379 2404 1 END
: 1380 2405 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
COMMON	5024	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, OVR, NOPIC, ALIGN(2)
CODE	1967	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	220	1	1000	00:01.5

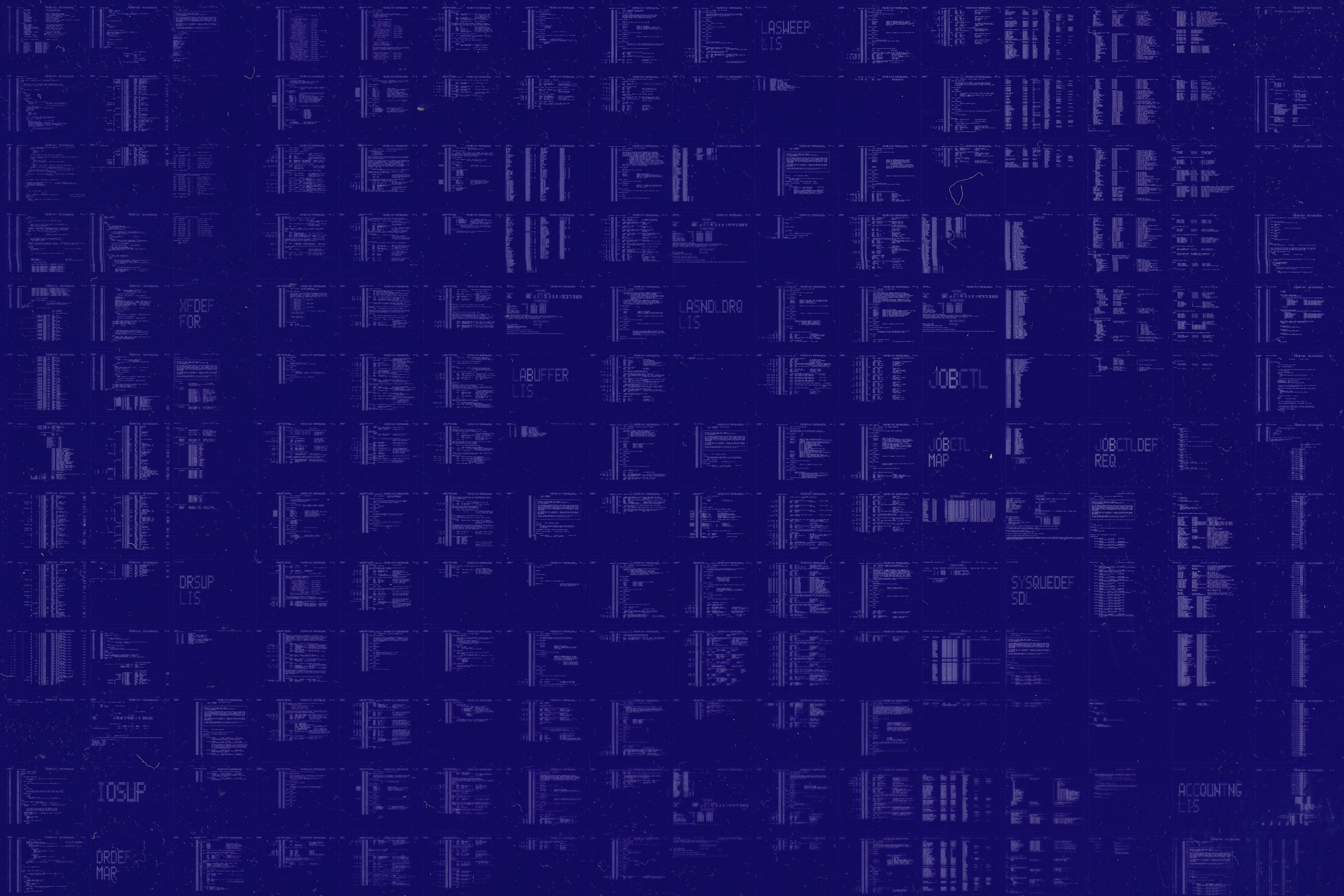
COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:ACCOUNTNG/OBJ=OBJ\$:ACCOUNTNG MSRC\$:ACCOUNTNG/UPDATE=(ENH\$:ACCOUNTNG)

: Size: 1928 code + 5063 data bytes
: Run Time: 00:39.4
: Elapsed Time: 02:39.7
: Lines/CPU Min: 3661
: Lexemes/CPU-Min: 46131
: Memory Used: 392 pages
: Compilation Complete

0190 AH-BT13A-SE
VAX/VMS V4.0

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VAX/VMS V4.0

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